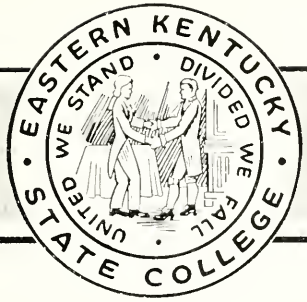
BULLETIN - 1962

EASTERN KENTUCKY STATE COLLEGE

CATALOGUE

1962 - 63



A STANDARD COLLEGE

MEMBER OF

Kentucky Association of Colleges, Secondary and Elementary Schools

American Association of Colleges for Teacher Education

Association of State Colleges and Universities

National Business Teacher Training Institutions

Association for Field Services in Teacher Education

American Association of University Women

American Council on Education

ACCREDITED BY

Southern Association of Colleges and Secondary Schools

National Council for Accreditation of Teacher Education

National Association of Schools of Music

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1962—CALENDAR—1963

FIRST SEMESTER

September 8	Saturday	8:00 a.m.	In-service education students who enroll for Saturday and evening classes will register.
September 10	Monday	8:30 a.m.	Classification tests for first semester freshmen.
September 11	Tuesday	8:30 a.m.	Classification tests for first semester freshmen.
September 12	Wednesday	8:00 a.m.	Registration of freshmen.
September 13	Thursday	8:00 a.m.	Registration of sophomores.
September 14	Friday	8:00 a.m.	Registration of juniors and seniors.
September 15	Saturday	8:00 a.m.	Registration of graduate students.
September 17	Monday	8:00 a.m.	Classes begin.
September 24	Monday		Last day to enter a course for credit with reduced load.
October 22	Monday		Last day on which a course may be dropped without a grade.
November 14	Wednesday	10:00 a.m.	Mid-semester reports to Registrar.
November 21	Wednesday	Noon	School closes for Thanksgiving holiday.
November 26	Monday	8:00 a.m.	Class work resumes.
December 19	Wednesday	Noon	Christmas holiday begins.
January 2	Wednesday	8:00 a.m.	Class work resumes.
January 22	Tuesday	5:00 p.m.	First semester closes.
January 25	Friday	8:00 a.m.	Grades to Registrar.

SECOND SEMESTER

January 28	Monday	8:00 a.m.	Registration of freshmen and sophomores.
January 29	Tuesday	8:00 a.m.	Registration of juniors, seniors, and graduate students.
January 30	Wednesday	8:00 a.m.	Classes begin.
February 2	Saturday	8:00 a.m.	In-service education students who enroll for Saturday and evening classes will register.
February 5	Tuesday		Last day to enter a class for credit with reduced load.
March 4	Monday		Last day on which a course may be dropped without a grade.
March 25	Monday	9:00 a.m.	Mid-semester reports to Registrar.
April 15-20			Spring vacation.
May 26	Sunday	10:45 a.m.	Baccalaureate service.
May 29	Wednesday	10:00 a.m.	Commencement.
May 31	Friday	5:00 p.m.	Second semester closes.

SUMMER SCHOOL—1963

June 10	Monday	8:00 a.m.	Summer school begins.
June 11	Tuesday		Classes begin.
June 11	Tuesday		Last day to register for a full load.
June 13	Thursday		Last day to enter a course for credit with reduced load.
August 1	Thursday	7:30 p.m.	Commencement.
August 2	Friday	5:00 p.m.	Summer school closes.

OFFICIAL CATALOGUE—1962-63

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PART ONE

About Eastern Kentucky State College

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EASTERN . . . Dedicated to Serving Kentucky Since 1906

INTRODUCTION

Eastern Kentucky State College is a coeducational public institution of higher education offering general and liberal arts programs, and professional training in education and other fields at the undergraduate and graduate levels. Located in Richmond, Madison County, Kentucky, the campus embraces approximately 265 acres of gently-rolling bluegrass slopes. The main campus centers around a replica of an ancient Greek amphitheater seating 2 500 persons. The natural beauty of the area is enhanced by an abundance of trees and shrubs. The college is housed in 39 buildings, with further expansion under way.

Richmond is on the main line of the L & N Railroad, 112 miles south of Cincinnati, Ohio. Situated twenty-six miles southeast of Lexington, Kentucky, Richmond is conveniently reached by automobile over U. S. Route 25 (Dixie Highway) from Northern Kentucky and Cincinnati to the North and from Southeastern Kentucky to the South. Richmond is also served by U. S. Route 227 and Kentucky Route 52. Combinations of major highways in the state with these highways make Richmond easily accessible from Eastern and Northeastern Kentucky as well as the Bluegrass and Central Kentucky areas and the Metropolitan area of Louisville.

Completion of Interstate Highways, I-64 and I-75, and the Eastern Kentucky Turnpike, will provide greater convenience in automobile travel to Richmond, since the city is located near the convergence of these three arterial highways.

Richmond, the county seat of Madison County, is an expanding community of approximately 13,000 population. Served by fine churches representing most Christian faiths, the community provides an excellent environment for the college student.

In and around Richmond are many areas of historic and scenic interest. Boonesboro, birthplace of Kentucky, is located twelve miles to the north. Many other historical places are within easy driving distance. Scenic and recreational areas surround this section of the state.

HISTORY

The General Assembly of 1906 enacted legislation establishing the Eastern Kentucky State Normal School. Governor J. C. W. Beckham signed the bill into law on March 21, 1906, and on May 7 of that year, the Normal School Commission, meeting in Louisville, selected the campus of old Central University in Richmond, Kentucky, as the site of the new school. On June 2, 1906, Ruric Nevel Roark was chosen President of the Normal school and the training of teachers was initiated.

In 1922, Eastern became a four-year institution known as the Eastern Kentucky State Normal School and Teachers College. The first degrees were awarded by this institution in 1925. In 1928, the College was accredited by the Southern Association of Colleges and Secondary Schools. In 1930, the General Assembly renamed the school as the Eastern Kentucky State Teachers College.

In 1935, a graduate program was approved at Eastern, leading to the Master of Arts in Education. In 1948, the General Assembly removed the word "Teachers" from the name of the College and granted the College the right to award non-professional degrees. During this period of time, Eastern Kentucky State College has increased rapidly in size and stature. Beginning with a few students engaged in short review and certificate courses, the College today serves thousands of Kentucky's young men and women by offering a curriculum leading to the Bachelor of Arts, or Bachelor of Science degree in teacher education, or in general or professional areas. Further, a graduate program leading to the Master of Arts degree in Education and an additional year's graduate work beyond the Master's degree is offered for those seeking additional training for leadership positions in the field of education.

Ever-mindful of the purpose of its founding, Eastern continues to recognize its chief function as that of preparing excellent teachers for the elementary and secondary schools of the Commonwealth. However, a strong liberal arts curriculum leading to appropriate degrees, together with pre-professional courses in several areas, enable Eastern to serve the Commonwealth as a general college.

The College has a broad program on offerings in the field of Business Education with a curriculum offering thorough training in secretarial practice, accounting methods and materials, and general business.

PURPOSE

It is the purpose of Eastern Kentucky State College to provide for youth those intellectual and cultural pursuits which will develop in them habits of scholarship and intellectual curiosity; which will provide for them a deep understanding of American democracy and their role in maintaining its strength and vitality; which will imbue them with an understanding of man and his aspirations; and which will enable them to communicate effectively and efficiently.

With this worthy purpose as a basis, Eastern Kentucky State College has detailed its specific aims:

Eastern Kentucky State College has a historic mission in the training of teachers for the classrooms of America.

The purpose of the institution can be met only through a broad and liberal education of all students.

As Eastern Kentucky State College seeks to serve more adequately, it has developed sound curricula to provide instruction in general and specialized fields in order that students may be prepared for professional, technical, and industrial careers.

Eastern Kentucky State College seeks to serve the citizens of the state through the extension of aspects of the college program into other areas and communities. Extension and correspondence courses are offered as the need is evidenced. Lectures and consultant services are available upon request. Concert tours by the various organizations of the Music Department, art exhibits, and dramatic performances round out the cultural service of the institution.

Eastern Kentucky State College attempts to meet these purposes and aims through constant attention to see that the curriculum is such as to give students the basic concepts in their fields of knowledge and the special techniques needed for the mastery of their field. Eastern aspires to motivate each student through superior teaching and counseling, to the end that students will find at Eastern an intellectually-demanding college experience as well as opportunities for social development.

Main entrance to Campus Drive off Lancaster Avenue.

The beautiful Eastern campus provides a wonderful environment for college life.

THE CAMPUS

The Eastern campus is endowed with great natural beauty, enhanced by the thoughtful selection and placement of trees and shrubs. The various academic buildings, dormitories, and other buildings are centered around the amphitheater and reflect several styles of design. The map on the inside of the back cover shows the lay-out of the campus. Following are brief descriptions of the major buildings and facilities at Eastern Kentucky State College.

ACADEMIC BUILDINGS

ALUMNI COLISEUM

The Alumni Coliseum is currently under construction and is scheduled for completion by January, 1963. This magnificent structure will house facilities for physical education, general college classrooms and a basketball playing arena. The physical education facilities include auxiliary gymnasiums, special purpose rooms, locker and shower spaces and an indoor and an outdoor olympic size swimming pool. General classrooms are included for general college use. Spectator seating will accommodate approximately 6,500 persons for basketball games and approximately 7,500 persons for convocations, lectures, and similar events. The building will provide office space for Physical Education faculty, Department of Athletic staff and R.O.T.C. staff.

CAMMACK BUILDING

The James W. Cammack Building was named to honor an appointee to the first Board of Regents of the College in 1906. In the summer of 1961, this building was completely renovated and is currently used to house the Art Department, Foreign Language Department, and other departments of the College. The exhibit room of the Art Department is located on the first floor and a modern, well-equipped language laboratory on the second floor is used by the Foreign Language Department.

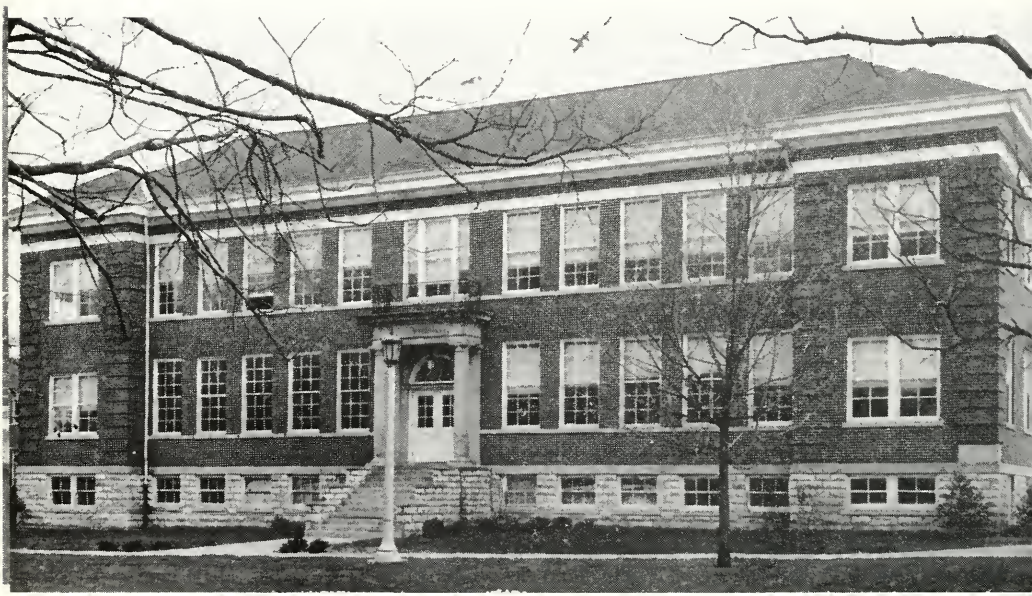
COATES ADMINISTRATION BUILDING

The Thomas Jackson Coates Administration Building was named in honor of Eastern's third president. The offices of the President, Dean of Instruction, Dean of Students, Registrar, Business Agent, and other administrative personnel are located in this building. The building contains the Hiram Brock Auditorium which has a seating capacity of 2,000. The auditorium has a stage 40 feet by 30 feet, equipped with adequate curtains and drops, a modern motion picture projection room, and an electronic organ.

CRABBE LIBRARY

The John Grant Crabbe Library, named in honor of Eastern's second president, occupies a central and convenient position on the campus. The library has several large reading and use areas as well as smaller areas for individual and diversified study. Over 105,000 volumes are housed in the building along with an extensive periodical and pamphlet collection, all organized for easy use by library patrons.

Roark Hall, one of the oldest, but most beautiful, classroom bulidings on the campus.



The Cammack Building was completely renovated and converted into an outstanding college classroom building.

DONOVAN BUILDING

The Donovan Building, named to honor Dr. Herman Lee Donovan, fourth President of Eastern Kentucky State College and President emeritus of the University of Kentucky, was first occupied in September of 1961. This building consists of several units housing the laboratory school of Eastern Kentucky State College, and provides college classrooms. The facility is complete in all respects, utilizing modern concepts in design and equipment. Facilities are included for the laboratory school, from the kindergarten through the twelfth grade, with appropriate units designed for physical education, music, arts and crafts, and general academic work at the elementary and secondary levels. Completely air-conditioned, this building compares favorably with any similar facility in the nation.

FITZPATRICK ARTS BUILDING

This building was named to honor H. D. Fitzpatrick, Sr., a long-time member of the Board of Regents of the College. The Fitzpatrick Arts Building houses the Departments of Industrial Arts and Home Economics. The Gibson Addition to the building in 1961 added to the Industrial Arts shop and classroom facilities.

STEPHEN COLLINS FOSTER MUSIC BUILDING

The Stephen Collins Foster Music Building houses the Music Department and provides classrooms for other divisions of the College. Facilities include, in addition to classrooms, nineteen practic rooms, ten studios, a band room and a chorus room, a number of auxiliary rooms such as offices for the head of the Music Department and the band director, listening rooms for music appreciation, student and faculty lounges, and storage and locker space. The building was air-conditioned in the spring of 1961.

ROARK BUILDING

Roark Building provides facilities for the departments of Mathematics, English, Geography, and Geology. It was named in honor of Dr. Ruric Nevel Roark, Eastern's first President.

SCIENCE BUILDING

The Science Building is a modern four-story structure housing spacious, well-equipped laboratories and lecture rooms for the departments of Biology, Chemistry, and Physics.

TURLEY HOUSE

The Turley House is the residence for those students in the Home Economics Department who take the laboratory course in household management. Here the girls live and work together for nine weeks, cooperatively preparing their own meals, doing their own marketing, entertaining their guests, and making a pleasant home life for themselves.

UNIVERSITY BUILDING

The University Building was constructed in 1874 to house old Central University. This four-story brick structure is the oldest academic building on the campus. In the summer of 1961 the

building was completely renovated to house the J. T. Dorris Museum and the departments of History, Social Studies, Anthropology, and Sociology.

WEAVER HEALTH BUILDING

The Weaver Health Building is named for the late Charles F. Weaver of Ashland, Kentucky, who served on the Board of Regents at Eastern from 1920 to 1932. In it there are two gymnasiums, one 110 feet by 120 feet and one 74 feet by 40 feet; a large variety of physical education apparatus; an official-size tile swimming pool; offices of members of the health and physical education staff; several classrooms; and ROTC headquarters.

RESIDENCE BUILDINGS

BURNAM HALL

Burnam Hall was named for Judge A. R. Burnam, who served in the Kentucky General Assembly, and helped Eastern secure her first significant appropriation. It provides beautiful, comfortable, and fireproof living quarters for 370 students. Most of the rooms are arranged in suites of two with a connecting bath. A few rooms have private baths.

CASE HALL

Case Hall was named to honor Mrs. Emma Y. Case, Dean of Women of the College from 1932 until her retirement in 1962. The dormitory provides living accommodations for 550 women students. In addition to bedrooms, the building contains spacious reception, lounge, parlor and recreational spaces. A large grill provided in the dormitory will seat approximately 175 persons.

Case Hall is a beautiful Danish-modern dormitory that houses 550 women and contains an air-conditioned grill and snack bar.

McGREGOR HALL

McGregor Hall is a six story dormitory designed to provide excellent living accommodations for 448 women students. This dormitory, currently under construction, will be completely air-conditioned and will include lounge and recreational spaces. It is anticipated that this facility will be ready for occupancy in February, 1963.

SULLIVAN HALL

Sullivan Hall is a dormitory for women and accommodates 172 students. It was named for the first local regent, Jere A. Sullivan, who helped establish the first two normal schools in Kentucky. Sullivan Hall is a comfortable and convenient home for the women who live there. Central baths are located on each floor of the building.

BECKHAM HALL, McCREARY HALL, AND MILLER HALL

Beckham Hall, Miller Hall, and McCreary Hall are three units so designed as to form a complex. Each of the dormitories provides accommodations for forty-eight men students. The rooms in these three halls are arranged in suites of four rooms and one bath. For each pair of such sections, one above the other, there is an outside entrance. Office and lounge facilities for these halls are located in Beckham Hall.

Beckham Hall is named for the late J. C. W. Beckham, who was Governor of Kentucky when Eastern was founded. McCreary Hall is named for James B. McCreary, a Richmond citizen, who twice served the State as Chief Executive. Miller Hall is named for Robert W. Miller, a Madison countian, who introduced in the lower house of the General Assembly a bill establishing Eastern.

EARLE B. COMBS HALL

Combs Hall, currently under construction, replaced Memorial Hall and forms a quadrangle with Keith, Miller, Beckham and McCreary Halls. This dormitory, completely air-conditioned, will provide living spaces for 238 men students. Lounge and recreational facilities are included in the facility.

The hall was named to honor Mr. Earle B. Combs, Sr., a member of the Board of Regents of the College.

KEITH HALL

Keith Hall, a dormitory for men, is a modern, fireproof structure containing 88 bedrooms, a spacious lounge, offices, and auxiliary facilities. It has built-in furniture. The entire building has mechanical ventilation that is designed not only to keep a supply of fresh air in each room, but also to regulate the temperature. Keith Hall was named in honor of the late Dr. Charles A. Keith, former Dean of Men at Eastern Kentucky State College, and Mrs. Keith.

O'DONNELL HALL

O'Donnell Hall is a four-story fireproof structure containing 100 bedrooms for men students. This hall was occupied for the

first time in February, 1959. A spacious and beautifully furnished lounge, a post office with individual mail boxes, and an adequate parking lot make this residence hall a very well equipped facility. This hall was named to honor Dr. W. F. O'Donnell, President-emeritus of Eastern Kentucky State College.

MARTIN HALL

Martin Hall is a dormitory for men that is under construction at the present time. When the hall is completed, in June, 1962, it will provide 200 bedrooms, an air-conditioned cafeteria, spacious recreation and lounge space, and service facilities.

Martin Hall was named in honor of Dr. Robert R. Martin, at the time of his inauguration as President of Eastern Kentucky State College.

MATTOX HALL

Mattox Hall is constructed adjacent to and at right angles with O'Donnell Hall and connected to it by a colonade. This hall matches O'Donnell Hall in all respects and, in addition, contains a snack bar and recreation facilities. This dormitory was occupied for the first time in 1961. Mattox Hall was named to honor M. E. Mattox, Registrar of the College since 1925.

BROCKTON

Brockton is the family housing project at Eastern. It consists of 144 modern fire-resistant apartments in all. There are 72 efficiency units, 41 one-bedroom units, and 32 two-bedroom units.

The apartments are furnished with an electric refrigerator and gas range. The efficiency units also contain a sleeper couch and a five-piece dinette set. Each apartment has an individual thermostatically-controlled gas furnace, tile floors, and accoustical ceilings. The bath includes both shower and tub. A coin-operated laundry with both washers and driers is conveniently located in the project area.

Brockton was named in honor of George Marshall Brock, who has been associated with the College since 1918, and the Business Agent since 1923.

TRAILER PARK

A modern trailer park has been constructed adjacent to Brockton. Paved roadways, landscaped area, adequate space and complete utility services are included. The park will accommodate trailers of all sizes.

OTHER FACILITIES

In addition to the residence units listed above, the College owns or operates several other facilities for the housing of students. Among these are the Lancaster House, Telford House and Stateland House for single men students and several apartments and dwellings on campus for the housing of faculty and staff.

OTHER BUILDINGS

JOHNSON STUDENT UNION BUILDING

The Keen Johnson Student Union Building contains club rooms for students, recreation halls, the Little Theater, bookstore, soda fountain and grill, cafeteria, faculty rooms, and a spacious reception room. It was named in honor of a former Governor of Kentucky who was a member of the Board of Regents at the time it was constructed. In 1961 the Student Union Building was renovated and refurnished to provide more extensive services for students, faculty and friends of the College.

BLANTON HOUSE

The two-story brick residence, which is the President's Home, was constructed in 1886 as a residence for the Chancellor of Central University but did not become the property of the College until 1912. This residence has served as the home of Eastern's presidents since that date.

HANGER STADIUM

The Hanger Stadium was built by a donation from Mr. Arnold Hanger together with gifts from students, faculty, and friends of the College and supplemented by a Federal Grant. The stadium has a seating capacity of 5,000 persons for intercollegiate football.

AULT SERVICE BUILDING

The Ault Service Building was named in honor of William A. Ault, who served the College for 45 years as Superintendent of Buildings and Grounds.

This modern facility was completed in 1962. The building not only provides modern shops and office space for the entire maintenance department, but serves as a central supply and storeroom for all departments on the campus.

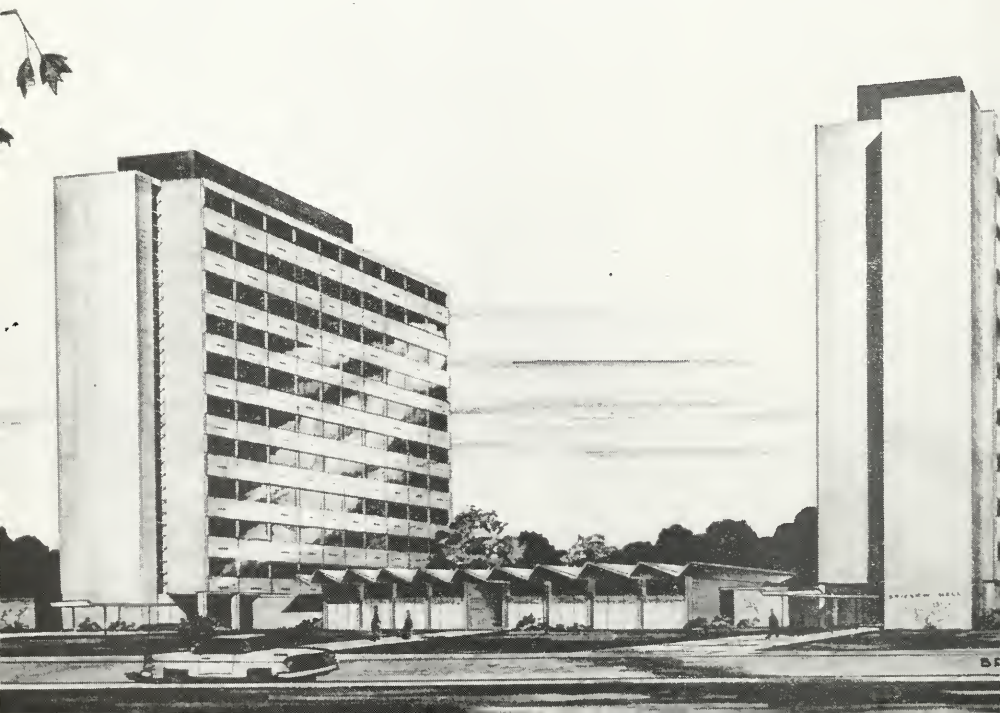
COLLEGE FARM

The College operates a modern farm, engaging in dairying, hog production, egg production and production of various crops. The farm operation is located away from the main campus and is housed in up-to-date buildings, providing modern sanitary facilities for the production of food products.

Martin Hall, named for Eastern's president, houses 404 men and contains an air-conditioned cafeteria.

Pictured on these pages are new dormitories under construction on the booming Eastern campus. Martin Hall, above, was to be occupied for the first time this summer. The others are either under construction or scheduled to be under construction by fall.

These 12-story "towers" will house 312 men students each. Each will contain two elevators and will be air-conditioned. They will be the talles tin Kentucky.



This 11-story women's dormitory is scheduled to be under construction by fall. It will be air-conditioned and will house 312 women.

Earle Combs Hall, top photo, will house 238 men when completed in February, 1963. McGregor Hall, bottom, is a six-story women's dorm that will house 450 and will be completed in June, 1963. Both will be air-conditioned.

PART TWO

Information For The Student

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EXPENSES AND LIVING ACCOMMODATIONS

EXPENSES

The following list of fees is required of students. All fees must be paid at the time of registration. Incidental fees paid each semester entitle the student to use of the library, to use of the Student Union Building, and to other services as directed by the Board of Regents.

Registration and Incidental Fees (Per Semester)	Kentucky Resident	Out-of-State Resident
Registration Fee		
Undergraduate		
Full-time	$65.00	$130.00
Part-time (Fewer than 12 semester hours), per hour	6.00	12.00
Graduate		
Full-time	77.00	154.00
Part-time (Fewer than 11 semester hours), per hour	7.00	14.00
Health Fee—Full-time	3.00	3.00
Special Classroom Fee		
Full-time	4.50	4.50
Part-time	2.00	2.00
Activity Fee (Optional for Graduate Students)	5.00	5.00
College Yearbook (The Milestone) payable first semester	6.50	6.50
Registration and Incidental Fees (Summer Term)		
Registration Fee		
Undergraduate		
Full-time	32.50	65.00
Part-time (Fewer than 6 semester hours), per hour	6.00	12.00
Graduate		
Full-time	38.50	77.00
Part-time (Fewer than 6 semester hours), per hour	7.00	14.00
Health Fee—Full-time	1.50	1.50
Special Classroom Fee		
Full-time	2.25	2.25
Part-time	1.00	1.00
Other Fees		
Special Fees		
Home Economics		
215		$ 7.50
302		5.00

Music	
130, 131, 350, and 351	5.00
110, 111, 320	12.00
All instruments and voice	
One lesson per week	22.50
Two lessons per week	36.00
Practice room, Piano, Voice, one hour daily per semester	5.00
Practice room, String and Wind Instruments, one hour daily per semester	2.50
Rental of College owned instrument per semester	3.00
Military Science	
Uniform Deposit	7.00
Other expenses	3.00
Other Expenses	
Late Registration Fee (per day late)	1.00
Voluntary change of schedule fee	1.00
Transcript Fee (other than the initial copy)	1.00
Graduation Fee (includes cost of diploma, cap and gown rental, and other expenses incidental to graduation)	
Baccalaureate degree	7.50
Master of Arts degree	20.00
Post office box rent (for each dormitory resident)	.75

STUDENT IDENTIFICATION CARD

Each full-time student who has paid the full fees for a semester, including the activity fee, will be issued a personal identification card. This card entitles the student to admission to all athletic contests on the campus and to certain other programs sponsored by the College. It must be carried by the student at all times for official identification on the campus, and all full-time undergraduate students must have a valid card before registration is completed.

If the card is lost, it must be replaced. A replacement fee of $5.00 is assessed. Application for replacement must be made at the office of the Dean of Students.

LIVING ACCOMMODATIONS

Eastern Kentucky State College maintains a number of residence halls for single students. Within limits of the capacities of these halls all single students not living at home are required to live in College facilities. When the capacity of the halls has been reached single students may secure lodging in privately-owned facilities, provided these facilities have been approved by the College. All students, whether living in College or private facilities, are subject to regulations and supervision of the College.

All rooms have single beds for which pillows and linens are furnished. The College bears the expense of having these sheets

and pillow cases laundered. Each student is expected to provide his own blankets, towels, window drapes, and similar articles. Students will find it to their advantage to have their own study lamps.

Residence Halls for Women	Rent*	
	Semester	Summer
Burnam	$90.00	$40.00
Case	90.00	40.00
Sullivan	90.00	40.00
Residence Halls for Men		
Keith	90.00	40.00
Martin	90.00	40.00
Mattox	90.00	40.00
Miller, Beckham, and McCreary	90.00	40.00
O'Donnell	90.00	40.00
Lancaster House	72.00	32.00
Telford House	72.00	32.00

A few student bedrooms, located in the basements of various dormitories, are available at a reduced rate.

DORMITORY POLICIES

All students desiring housing at Eastern Kentucky State College should complete an application for a room reservation and forward it to the Dean of Students, Eastern Kentucky State College, Richmond, Kentucky.

An advance rental payment of $45.00 should accompany the application. This payment is necessary before a reservation will be made. It will be applied to the rent for the first semester following enrollment. The advance payment will be refunded in full if cancellation is received by August 15 for the first semester, January 15 for new students for the second semester, or May 15 for the summer term respectively.

Room reservations must be claimed by midnight of the last day of registration. Those rooms not claimed by that day may be reassigned to other applicants.

Refunds of rent after a room is accepted shall be made only in exceptional instances. In no case shall a refund of rent be made to students moving from the College housing at their convenience.

Dormitory rent is paid by the semester and is due and payable at registration. Refunds, when authorized, shall be made on the following schedule, based on weeks of occupancy of the room. Semester: up to two weeks, 75%; two to four weeks, 50%; four to six weeks, 25%. After six weeks no refunds will be made. Summer term: one week, 75%; two weeks, 50%; three weeks, 25%. After three weeks no refunds will be made.

* This rental fee is based on assignment of two students per room. If three students are assigned to a room the cost will be $72.00 per semester.

FOOD SERVICE

The College operates several food service facilities on the campus. Large, modern, air-conditioned cafeterias in the Johnson Student Union Building and Martin Hall serve attractive, wholesome meals at reasonable prices. In addition, snack bars are located in the Johnson Student Union Building, Case Hall, Martin Hall, and Mattox Hall.

SCHOLARSHIPS, FINANCIAL AID, AND STUDENT EMPLOYMENT

SCHOLARSHIPS

The William Davis Scholarship. Under the provisions of the will of the late William Davis of Newport, Kentucky, a sum of money was left for the benefit of the student living in the Lona Estella Davis school district of Rowan County. Scholarships of $200.00 each are awarded by the Superintendent of Rowan County schools and the President of Eastern Kentucky State College. A student desiring to secure one of these scholarships should write to the Chairman of Student Aid Committee, Eastern Kentucky State College, or make application to the Superintendent of Rowan County Schools.

The Myrtle Mae Sloan Memorial Fund was established in 1959, in memory of Miss Myrtle Mae Sloan, by her sister, Miss Viva Odean Sloan, resident of Berea, Kentucky. The income from this fund will be paid to a high ranking student who needs help to enable him or her to remain in college.

The Lily Christopher Ogg McWhorter Memorial Fund was established in 1959, in memory of Mrs. Nina Rachel Ogg Pee and William Emery Ogg, graduates of Eastern, by their sister, Mrs. Lily Christopher Ogg McWhorter. They were all residents of Madison County. The income from this fund is to provide financial aid for persons of good ability but of little money.

In the field of Music there are three scholarships awarded annually to those students who make the most satisfactory progress in piano, voice, and violin.

The Presidential Scholarships are awarded annually by the President on the basis of high scholastic potential and need. These scholarships have an approximate value of $65.00 per semester.

LOAN FUNDS

The National Defense Student Loan Program at Eastern provides loans for students. Priority is given to students who have superior records in high school and college and who are majoring in Mathematics or Science or who are planning to prepare themselves to teach. To get application forms and a statement of conditions relating to the loans, applicants should send their requests to the Chairman of the National Defense Student Loan Fund, Eastern Kentucky State College.

The Student Loan Fund of the Eastern Kentucky State College is designed to help worthy students complete their education. It

has been augmented from time to time by gifts from different individuals and organizations and is being increased annually. Small loans are available to upperclass students. Those having high scholarship records will be given preference in the granting of loans. This fund makes it possible for a student to borrow a small amount of money on a personal note at a legal rate of interest. Students who desire further information concerning this fund should get in touch with the Chairman of the Student Aid Committee.

STUDENT EMPLOYMENT

There is opportunity for student employment, whereby a limited number of students may earn a part of their expenses by working in the College Cafeteria, Library, Bookstore, Post Office, Dormitories, Administrative Offices, College Dairy and Farm, Maintenance Department, and Faculty Offices. Some students may also secure part-time employment in Richmond stores, restaurants, and other businesses.

Student labor should be limited so that work hours will not take too much of the student's study time. While ten hours per week is an average labor load, circumstances may permit a greater number of hours. No student, however, should enter the College without sufficient money for the semester unless there is a definite guarantee of work to support him.

OTHER FINANCIAL ASSISTANCE

The Veterans Program at Eastern Kentucky State College is approved by the Veterans Administration for the education of veterans under the provision of Public Law 894, Public Law 634, and Public Law 550, Veterans Readjustment Act and the Korean GI Bill. Students concerned with veterans training should have, at the time of his registration, a certificate of eligibility. This is secured from the regional office of the Veterans Administration. The College is responsible for the completion of certain Veterans Administration forms and for the other necessary information about students who receive this aid.

If you have completed courses while in the Armed Forces, ask the Registrar about the possibility of receiving credit for such courses.

VOCATIONAL REHABILITATION

Vocational Rehabilitation for students with physical handicaps of various kinds may be approved, and may receive financial benefits as approved by the Department. Students who wish to consult with a representative relative to vocational rehabilitation should write the Department of Education, Division of Special Education, Frankfort, Kentucky, for specific instructions.

STUDENT SERVICES AND ACTIVITIES

Eastern Kentucky State College strives at all times to furnish services and activities which make the campus a home away from home. Our services are concerned with all phases of students' lives,

and are so organized that we attempt to help every student to realize his or her own possibilities. Caring for personal and social needs, promoting the maximum growth of every student, and developing effective programs to meet the needs of a changing student body in a shifting world social scene receives high priority in the minds of our faculty, staff and administration.

Our operating policies represent the combined wisdom of students, faculty, and administration. Our services to students are coordinated through the student personnel programs and administered by a group of people who have a genuine interest in developing ideal programs to meet the needs of one of the largest student bodies in Kentucky. While it isn't possible to list in detail all the specific activities and services to students, you will find many of them described in this catalog.

STUDENT HEALTH SERVICE

Student health service is under the direction of the College Physician. An infirmary located on the ground floor of Sullivan Hall is staffed by Registered Nurses on a 24-hour per day basis. The College provides instruction in first aid, safety, personal and community hygiene and similar services to complement the student health program.

GUIDANCE AND COUNSELING SERVICES

The personnel services of the College are related to; (1) Admission of new students; (2) Orientation of Freshman; (3) Evaluation and counseling of students; (4) Mental and physical health; (5) Provision for well-rounded student activities; (6) Supervision of adequate living facilities; (7) Maintenance of useful personnel records; (8) Provision for employment, placement, and follow-up requirements; and (9) Vocational information. Files on occupations and job opportunities are available on campus.

Many staff members handle various aspects of the personnel work. The Dean of Students and his staff, together with all members of the faculty, provide counseling for students. Counsel, relative to social life, living facilities, and related problems of students, and other specialized guidance as needed by students and as implied by a modern philosophy of education, is readily available.

All new students at Eastern are assigned to a counselor to guide them toward the initiation of a successful college career.

Optional services are available to help individuals with their planning and clinical services are arranged to meet special needs. All personnel activities are designed to be practical in that they are provided to help students attain a maximum personal, social, and academic development in a stimulating environment.

Many types of tests are utilized in the college program. All freshmen participate in a testing program. The results are used in counseling, placement and scheduling of classes. Several departments give tests for the purpose of locating talent, interests, and aptitudes of the student body. The graduate school gives tests for admission to the program.

ATHLETICS AND RECREATION

Eastern offers a fine and varied athletic and recreational program for both men and women students. It consists of three major programs: Intercollegiate Athletics, Intramurals for Men, and Women's Recreation Association activities for women.

Eastern Kentucky State College is a member of the Ohio Valley Athletic Conference and the National Collegiate Athletic Association. The Ohio Valley Conference annually produces teams that have top ranking among universities and colleges in the United States. In addition to these conference contests, representative teams from all parts of the country are scheduled. Intercollegiate competition is carried on in eight different sports. They are: football, basketball, swimming, tennis, golf, track, cross country, and baseball.

SOCIAL ACTIVITIES

The Social Committee of the College also arranges a multitude of social activities for the benefit of Eastern's students. Such activities as movies, dances, receptions, and parties are planned so the student can achieve maximum enjoyment. Every student has the chance to participate in a leisure time activity of his or her choice.

STUDENT ORGANIZATIONS

The student organizations, societies and clubs form an intrinsic part of the program of Eastern Kentucky State College that fulfills academic, social and religious functions. The student organizations at Eastern offer varied activities to encompass the interests of all students.

The Honorary Societies are: Kappa Iota Epsilon, Omicron Alpha Kappa, Collegiate Pentacle, and CWENS.

The Departmental Organizations are: Home Economics Club, College Dance Band, Music Club, Music Educators National Conference, Pershing Rifles, Association of United States Army, Kappa Kappa Sigma, Women's Recreation Association, Physical Education Majors and Minors, Alpha Psi Omega, Canterbury Club, Little Theatre Club, Mathematics Club, Student National Education Association, Kappa Delta Pi, Caduceus, Sigma Tau Pi, Pi Omega Pi, Biology Club, Industrial Arts Club, World Affairs Club, Physics Club, Agriculture Club, and Alpha Alpha Psi.

Religious Organizations are: Young Men's Christian Association, Young Women's Christian Association, Pi Tau Chi, Baptist Student Union, Wesley Foundation, Newman Club, Westminster Fellowship, Disciples Student Fellowship, and Episcopal Canterbury Club.

Activity Organizations are: Veterans' *Milestone,* Photography Club, *Eastern Progress,* KYMA, and Varsity "E" Club.

The Other Student Organizations on the campus are: Student Council, Music Council, Clay County Club, Floyd County Club, Letcher County Club, Mercer County Club, Laurel County Club, Student Discussion Club, Young Democrats, Young Republicans,

Men's Dormitory Council, Women's Dormitory Council, Choir, Band, Orchestra, and Messiah Chorus.

The choir, band and orchestra have several programs, on and off campus, during each school year. They make a number of appearances before high schools and other organizations across our state.

STUDENT PUBLICATIONS

THE EASTERN PROGRESS, weekly student newspaper, is the official student publication of the College, and all students are encouraged to take advantage of the journalism training offered by the Progress organization. With the recent reorganization of the newspaper, it is considered as perhaps the finest newspaper in the College's history. The College Director of Publicity and Publications serves as advisor to the staff.

THE MILESTONE is the College yearbook, published annually by the representatives of the Senior Class. This publication contains photographic and statistical records of all organizations and events of the College year, presented in an attractive manner. The book is distributed during the last two weeks of the spring semester.

BELLES LETTRES is a magazine of student writing edited and published by the Canterbury Club, an organization of English majors and minors who meet monthly to encourage interest in literary activity. The magazine accepts poems, one-act plays, and short stories from any student. It is issued each year near the end of the spring semester.

CULTURAL ACTIVITIES

Every effort is made at Eastern to surround the students with cultural advantages. The programs presented are planned as part of the students' education and much time and effort is put forth to provide programs that will be of benefit to students.

Assemblies are held regularly once a week and special assemblies are held when the occasion warrants. While programs at these assemblies are designed primarily for the students and faculty, visitors to the campus are welcome to attend. Programs planned for these assembly periods include appearances by nationally recognized lecturers and artists. Programs are provided on other occasions by lecturers or musical groups which have relationship to the College. Many fine programs are furnished by the Music Department of the College. Important College matters are officially presented to the student body by the President.

Freshmen are required to attend assembly as a part of their orientation course.

Concert Series are presented at the College in cooperation with the Community Concert Association. Students are admitted to these excellent programs without charge. These programs feature some of the outstanding individuals and groups in the nation.

Art Exhibits, maintained by the Art Department, are on continuous exhibition and feature the works of America's foremost

artists as well as the works of artists from other countries. This exhibition is housed in the Exhibit Room, Cammack Hall. In addition, special exhibits are sometimes arranged for showing in the Student Union Building.

Church Affiliation is recognized as an important factor in the life of any student. Eastern is a state-supported institution and is, therefore, non-denominational. The College has a basic objective in helping to develop ethical character among all students. There is close cooperation between the institution and several fine churches in Richmond. Students are encouraged to attend church services in town. Eastern makes spaces available for several student church organizations to meet on the campus.

Dramas are presented by the Little Theater Club and every College student may take part in their stage productions. Dramatic productions each semester provide opportunities in acting, directing and some technical aspects of the theater. Large groups of students enjoy our campus productions.

Each year many groups utilize facilities of the College for conferences, workshops, and other meetings. Frequently, these groups will present concerts, recitals, or lecturers of note. Often students are invited to attend these meetings.

STUDENT AWARDS

The Delta Alpha Chapter of Kappa Delta Pi presents annually a medal to the sophomore with the highest scholastic standing.

The Charles F. Weaver Fund is a fund of $1,000.00 established by the late Charles F. Weaver, long-time member of the Board of Regents, to encourage proficiency in oratory and home economics. The income from the fund is used to provide prizes to be awarded annually to the student who excels in oratory and to the student who has made the greatest advance in the field of home economics. The recipients are selected by a faculty committee.

The Anna D. Gill Award is a fund established in memory of Miss Anna D. Gill, long-time faculty member of the Commerce Department. The income from this fund will be awarded annually to the outstanding senior commerce student.

A Student Service Award is presented annually by members of the Young Men's and Young Women's Christian Association to that member of the graduating class who, during his or her four years at Eastern, has given the greatest measure of service to fellow students.

PLACEMENT OFFICE

The Placement Office is maintained by the College to assist students and alumni in obtaining positions in schools, businesses and industry. Each year, Superintendents, Principals, and other public school officials come to this office to secure qualified individuals to fill their vacancies. No charge is made for this service. Graduates of Eastern may leave pertinent information and records of recommendations in the office until such time as they will need it as a reference.

Department heads, professors, and citizens furnish great amounts of data which are filed in the Placement Office.

THE ALUMNI ASSOCIATION

The Alumni Association of Eastern has as its purpose to promote fellowship among the graduates and to stimulate mutual interest and concern between the College and the Alumni. Eastern now has 9,676 graduates. Many of these men and women hold more than one degree from the College. All of them are eligible for membership in the Eastern Alumni Association, "with all the rights and privileges appertaining thereto." All former students who have as much as a semester's work at Eastern, former faculty and staff members, are eligible for associate membership. Annual memberships are $2.00 single and $3.00 for joint membership (husband and wife). Life memberships are $50.00 for single and $75.00 for joint memberships.

The Alumni Association sponsors Homecoming in the fall, K.E.A. breakfast in the spring and Alumni Day at commencement time. The latter features an Alumni Dinner honoring the 50 year and the 25 year classes and the presentation of the Outstanding Alumnus Award. In addition, active Alumni Clubs at Louisville, and Northern Kentucky have one or more programs each year open to all alumni and former students in the area and are attended by faculty and administrative representatives from the campus.

Eastern Alumni Association is a member of the Joint Alumni Council of Kentucky, an organization made up of the Alumni of the six state-supported institutions: Eastern, Kentucky State, Morehead, Murray, Western and the University of Kentucky.

The Alumni Office is conveniently located in the Administration Building where alumni and students may get bulletins and information. This is a good place for former students to find the addresses of their colleagues. Graduates, former students and faculty members are always welcome at the Alumni Office.

Beautiful Walnut Hall is the scene of numerous receptions and dances.

The Keen Johnson Student Union Building is the center of social life at Eastern.

The cafeteria was air-conditioned last spring. Many social events are held here.

The Wonderful Wor

Life at Eastern is Full of Activity

College is more than the classroom, the laboratory, or the library, important as these are in your education. In the wonderful world that is Eastern, opportunities abound for pursuing your individual interests and talents which will contribute to your development as a citizen.

Campus life is informal and provides memories never forgotten. Outside the classroom the student is encouraged to participate in numerous campus activities, all of which are managed by the students, thus providing the widest measure of student responsibility. The Student Council is the students' voice in the administration of the College.

Eastern offers excellent laboratory facilities.

A typical scene at the basketball games.

Of Eastern

The student is given an opportunity to select from dozens of clubs and honorary fraternities and sororities.

He may participate in the fine Eastern band, either the 100-piece "Marching Maroons" or the concert band, the glee club, the Messiah, in plays presented by the drama department, in debates, or in the intramural athletic program.

The student also is afforded the opportunity to grow in culture, with dozens of prominent lecturers brought to the campus each year.

The wonderful world of Eastern provides these, and many more opportunities. It is up to the student to take advantage of them.

Students find an environment of friendliness at Eastern.

The beautiful outdoor amphitheater is one of the campus showplaces.

PART THREE

General Academic Information

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ADMISSION TO THE COLLEGE

I. **Methods of Admission.**—Candidates for admission to Eastern may be approved in any of the following ways:

1. **High School Graduation.**
   A. Students who graduate from an accredited high school in Kentucky may be admitted to the freshman class on the basis of an official transcript and a recommendation from the principal. The distribution of credits should include two majors and a minor. A minimum of three units is required for a major and two units is a minor. One major must be in English. Not more than four units will be accepted in vocational courses.
2. **By Special Approval.**
   A. Students who have a minimum of 15 units with superior grades may be admitted on examination provided the high school principal recommends that the student is qualified to do college work.
   B. Veterans who have a minimum of twelve units of high school work and have successfully passed the G. E. D. tests may be admitted provided their test at Eastern shows that they rank as high as the average freshman entering college.
   C. Persons over 21 years of age who wish to pursue courses as special students without reference to graduation may be granted the privilege if they have adequate preparation for the courses desired.
3. **By Advanced Standing.**
   A. Students wishing to enter Eastern from other accredited colleges must furnish an official transcript showing a satisfactory record in the college attended with a statement that the student is entitled to honorable dismissal. A student must be eligible for readmittance without condition to the college he attended in order to be accepted as a transfer student.

II. **Application for Admission.**—Applications for Admission to the Eastern Kentucky State College cannot be unconditionally approved until transcripts of credits are filed in the Office of the Registrar. As soon as possible after an Application for Admission and a Transcript of Credits are received, the candidate will be notified whether or not he is accepted.

It is the responsibility of the applicant to have the following items sent to the Registrar prior to the opening date of a term:

1. An application for admission, properly filled out by the applicant, should be made upon a regulation blank furnished by the Registrar.
2. A transcript of the secondary school credits, issued after graduation, should be mailed directly by the principal to the Registrar.

3. An official transcript of any college credits and a statement of honorable dismissal, regardless of whether or not the student received credit for the work, should be mailed directly to: The Registrar, Eastern Kentucky State College, Richmond, Kentucky.

STUDENT PROGRAMS AND REGULATIONS

Eastern Kentucky State College operates on the semester plan. The regular academic year is divided into two semesters of eighteen weeks each. The summer term, which is an integral part of the program, is eight weeks in length.

Classification of Students.—Students shall be classified as indicated below upon the completion of the respective number of hours, provided that the student has removed all entrance conditions:

Freshman—Entrance requirements
Sophomore—26 semester hours
Junior—58 semester hours
Senior—90 semester hours
Graduate—Baccalaureate degree.

How Courses Are Numbered.—Courses are numbered according to the following plan:

Courses numbered 100 to 199 are primarily for freshmen.
Courses numbered 200 to 299 are primarily for sophomores.
Courses numbered 300 to 399 are primarily for juniors.
Courses numbered 400 to 499 are primarily for seniors.
Courses numbered 500 to 599 are for graduate students.

Grading System.—Grades are indicated by letters, to each of which is given a certain value in "grade points." The following is the interpretation placed upon the grading system:

Grade	Meaning	Grade Points Per Semester Hour
A	Excellent	3
B	Good	2
C	Average	1
D	Poor	0
F	Failure	0
I	Incomplete	

The grades, A, B, C, D, and F cannot be changed by the instructor. A grade of "D" gives credit toward a certificate or a degree if with such credits the student's standing is 1 or more. A grade of "I" shall be assigned only upon condition the student has been unable to complete the course on time because of unavoidable conditions. A grade of "I" must be made complete within one month after the student re-enters the Institution. All grades of "I" automatically become "F" if not completed at the end of a year.

The standing of a student is defined as the ratio of his total number of "grade points" to his total number of semester hours' credit. A student's point average is obtained by dividing the total number of points earned by the total number of semester hours undertaken. Courses in which the marks of Cr., W, or WP are recorded are not figured in computing the point average. In order for a student to fulfill the requirements for a certificate or a degree he must offer a number of "grade points" at least as great as the number of semester hours.

Student Load.—The normal load for a semester for undergraduate students is sixteen semester hours. The minimum load to be classed as a full-time student is twelve semester hours. Students who have established superior records in the Institution may be permitted to enroll for more than sixteen semester hours provided the approval of the Dean of the College is secured at the time of registration. The maximum load, however, shall not exceed twenty-one hours.

Correspondence work may be taken while in residence only on condition that it is counted as a part of the load. The combined load of correspondence and residence work cannot exceed the amount the student may take in residence. This regulation applies regardless of the institution with which the student does correspondence work.

Scholarship.—For a semester the minimum standard of achievement which enables a student to re-enroll without question in the College is twelve semester hours' credit and twelve grade points. Students who fail to meet the above requirements may be readmitted on probation.

Withdrawal from Courses.—Necessary changes in courses must be made promptly after registration and should be approved by the Dean. Permission to add a course will not be given after registration ends without special approval of the instructor. Approval to drop courses during the last month of a semester will not be given unless justified by conditions beyond the student's control.

Withdrawal from the College.—Occasionally home conditions or some other factors make it necessary for students to withdraw. In such cases the student must see the President and arrange for the withdrawal. Any student who quits school or withdraws without securing the approval of the President may not register again unless the President sees fit to reinstate him.

Official Schedule Changes.—The College reserves the right to cancel a course when the registration is not sufficient to warrant its continuance, to divide classes if the enrollment is too large for efficient instruction, and to change instructors when necessary. Additional courses will be organized if the demand is sufficient.

General Requirements for the Baccalaureate Degrees.—The degree of Bachelor of Arts or Bachelor of Science is conferred upon those students who have completed an approved four-year curriculum. The minimum amount of credit required for the bachelor's degree is one hundred and twenty-eight semester hours of college credit. Not more than thirty-two semester hours of the work required for a degree may be earned by extension and/or correspondence. A candidate for a degree must have been in residence a minimum of 36 weeks and must have earned a minimum of 32 hours while in residence. At least 30 hours of the last 36 required for a degree must be earned in residence at Eastern. This regulation became effective September 1, 1959, and will apply to all work earned after September 1, 1959.

The curriculum which the student expects to follow for the completion of the requirements for the bachelor's degree must be filed in the office of the Dean of the College not later than the end of the junior year. The curriculum must be approved by the Dean of the College and by the major professor.

In order to be eligible to graduate a student should have a good proportion of his work in the upper division of the college. At least 43 semester hours of his work must be in courses numbered in the three and four hundreds.

Candidacy for Graduation.—A student planning to graduate in June should file application for a degree before the end of the first semester. Students who are planning to graduate in August should file application not later than the beginning of the second semester. Applications should be filed in the Registrar's Office. Fees for graduation are to be paid at the Business Office and receipts presented to the Registrar's Office.

Commencement.—Commencements are held at the close of the spring semester and at the end of the summer session. Students who are candidates for degrees are required to participate in the commencement exercises unless excused by the President. A student who completes the requirements for a degree during the fall semester will receive the degree at the following spring commencement.

Commencement Honors.—Students are graduated "With High Distinction" who attain a standing of 2.6 or higher for at least three years of residence work.

Students are graduated "With Distinction" who attain a standing of 2.4 up to 2.6 for at least three years of residence work.

A student who does only two years at Eastern may receive the appropriate commencement honors if he attains a standing of .2 greater than the above.

Students are frequent visitors to the Blanton House, where they are greeted by President and Mrs. Martin.

Oldest classroom building is the University Building. It wos completely renovated last year.

PART FOUR

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CURRICULA

TEACHER-EDUCATION CURRICULA

Degrees.—The Curricula offered by the College have been planned and developed to meet the needs of students who desire to become teachers, principals, supervisors, superintendents, attendance officers in the public schools, and guidance counselors. Curricula are offered for the preparation of elementary teachers; for teachers of the special subjects of agriculture, art, commerce, health and physical education, industrial arts, music, and vocational home economics; and for the preparation of high school teachers in fields of biology, chemistry, English, French, geography and geology, history, Latin, mathematics, physics, and Spanish. These curricula lead to the baccalaureate degrees and the Master of Arts degree with right of certification.

The Bachelor of Arts Degree is conferred upon students who major in art, English, French, geography and geology, history, Latin, music, social science, and Spanish.

The Bachelor of Science Degree is conferred upon students who major in biology, chemistry, commerce, elementary education, health and physical education, home economics, industrial arts, mathematics, and physics.

The Master of Arts Degree in Education is conferred upon students who complete the graduate program designed to meet the needs of teachers, supervisors, guidance counselors, educational administrators, etc.

PROVISIONAL ELEMENTARY CERTIFICATE

The Provisional Elementary Certificate valid for four years shall be issued to a person who completes a baccalaureate degree and meets the requirements for teaching in the elementary schools. This certificate may be reissued or renewed every four years after three years of teaching experience during the life of the certificate or upon the presentation of one-half year of standard college or university work of graduate grade. The Provisional Elementary Certificate may be extended for life upon the presentation of evidence that the holder has had three years of teaching experience in the elementary field during the life of the certificate and has completed the requirements for the Master's degree in a standard college or university.

The curriculum for the preparation of elementary teachers is given in the material under Education found subsequently in this catalog.

STANDARD ELEMENTARY CERTIFICATE

The Standard Elementary Certificate valid for five years shall be issued to a person who meets the requirements of law and general regulations of the State Board of Education and files a transcript of credits showing the completion of the four-year curriculum for the training of elementary teachers as prescribed by the Council on Public Higher Education, and, who, in addition thereto, completes the requirements for a Master's degree, in a standard graduate school, as prescribed.

The curriculum, which is to be approved by the State Board of Education, leading to the Standard Elementary Certificate shall be based upon the following:

a. Completion of the requirements for the Master's degree which shall be based upon at least 30 semester hours of graduate work. For students who write a thesis, a minimum of 24 semester hours shall be required.

b. At least 15 of the 30 hours required for the Master's degree must be in courses open only to graduate students. Nine of the 15 hours must be in professional education courses.

c. At least nine semester hours of the required work shall be in professional education courses designed to develop the recommended competencies.

d. At least 12 semester hours of the total hours required for the degree shall be non-professional subject matter courses. These courses must be selected from the fields of study required in general education and/or in subject matter courses used in partial fulfillment of the four-year elementary curriculum for elementary certification.

The Standard Elementary Certificate may be extended for life upon three years' successful teaching experience during the life of the certificate. If the holder fails to meet the requirements for life extension before the certificate expires, the certificate may be reissued or renewed for five years upon two years of successful teaching experience during the life of the certificate, or upon six semester hours of additional graduate work for each of the two years he failed to teach upon the certificate.

PROVISIONAL HIGH SCHOOL CERTIFICATE

The Provisional High School Certificate valid for four years shall be issued to a person who completes a baccalaureate degree for the training of high school teachers. This certificate may be renewed every four years after three years' teaching experience, or upon presentation of one-half year of standard college or university work of graduate grade, earned since issuance or last renewal of the certificate. If the holder fails to teach the three

years required for renewal or reissuance, the certificate may be renewed or reissued upon 4 semester hours of standard college or university work of graduate grade for each year he fails to teach upon the certificate.

Courses of instruction leading to the Provisional High School Certificate are to be found under the material of the various academic departments.

STANDARD SECONDARY CERTIFICATE

The Standard Secondary Certificate valid for five years shall be issued to a person who meets the requirements of law and general regulations of the State Board of Education and files a transcript of credits showing the completion of the four-year curriculum for the training of secondary teachers as prescribed by the Council on Public Higher Education, and, who, in addition thereto, completes the requirements for a Master's degree, in a standard graduate school, as prescribed.

The curriculum leading to the Standard Secondary Certificate shall be based upon the following:

a. Completion of the requirements for the Master's degree which shall be based upon at least 30 semester hours of graduate work. For students who write a thesis, a minimum of 24 semester hours shall be required.

b. At least 15 of the 30 hours required for the Master's degree must be in courses open only to graduate students. Nine of the 15 hours must be in professional education courses.

c. At least nine semester hours of the required work shall be in professional education courses designed to develop the recommended competencies.

d. At least 12 of the 30 semester hours required for the degree shall be non-professional subject matter courses. These courses must be selected from the list of subjects in which major and/or minors may be completed on the undergraduate level and used in partial fulfillment of requirements for the Bachelor's degree and the Provisional Secondary Certificate.

The Standard Secondary Certificate may be extended for life upon three years' successful teaching experience during the life of the certificate. If the holder fails to meet the requirements for life extension before the certificate expires, the certificate may be reissued or renewed for five years upon two years of successful teaching experience during the life of the certificate, or upon six semester hours of additional graduate work for each of the two years he failed to teach upon the certificate.

CURRICULA FOR SCHOOL LEADERS

(Administrators, Supervisors)

Eastern offers curricula leading to both the Provisional and Standard Certificates for School Leaders (principals, supervisors, and superintendents). For each of the Provisional Certificates the applicant must have completed a curriculum leading to the Master's degree. In the case of the supervisor and principal three years of successful teaching experience in elementary or secondary schools are required. For the superintendent four years of successful teaching experience are required.

The Standard Certificate for School Leaders may be issued to those applicants who have completed at least twenty-four hours of work above the Master's degree and who have had four years of successful experience as a school leader. Eastern has prepared specific curricula for each of these certificates. Students interested in pursuing these should contact the Associate Dean of Instruction in charge of Graduate Studies.

CURRICULUM FOR GUIDANCE COUNSELORS

Guidance counselors may be certified on a provisional basis upon completion of a Master's degree with specific preparation for guidance counselors. The applicant must have had three years of successful teaching experience or two years of teaching experience and one year of employment in a field other than teaching.

The Standard Certificate for Guidance Counselors shall be based upon the completion of the curriculum for provisional certification for guidance counselors and the completion of twenty-four additional semester hours of graduate study for guidance counselors. Students desiring to follow these curricula should contact the Associate Dean of Instruction in charge of Graduate Studies.

DEGREES WITHOUT RIGHT OF CERTIFICATION

(Non-professional)

It is possible for a student to secure a degree without the right of teaching in most of Eastern's academic departments. The requirements for such degrees are fully set forth in the description of the various academic departments found elsewhere in this catalog.

PRE-PROFESSIONAL CURRICULA

CURRICULUM PREPARATORY FOR MEDICINE AND DENTISTRY

Eastern offers a preparatory course for the study of medicine which, with modifications to meet special variations in requirements, complies with the general entrance requirements of medical schools. The curriculum outlined below also includes institutional requirements for graduation with a Bachelor of Science degree.

It is recommended that a student complete the four-year course of study at Eastern before transferring to a medical school. This gives the student obvious advantages in medical school and in later work. Furthermore, some medical schools require a four-year course for admission.

Students may elect to complete the outlined three years at Eastern and then use the first year of work from a Class A medical school to complete the requirements for the Bachelor of Science degree. Combination courses are subject to approval by Eastern and by the particular medical school.

Students who desire may take only two years for a premedical course. Many medical schools will not accept students with only two years of premedical training and Eastern does not recommend such a limited course.

PRE-MEDICAL CURRICULUM

First Year

First Semester	Hours	Second Semester	Hours
Biology 141	4	Biology 142	4
Chemistry 111	4	Chemistry 112	5
English 101	3	English 102	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Social Science 100	3	Social Science 101	3
Sociology 100	1	Sociology 101	1
	18		19

Second Year

Biology 342	5	Biology 347	4
Chemistry 211	5	Chemistry 212	5
Mathematics 107	3	Mathematics 113	3
Military Science 201 (Men) or Elective (Women)	2	Military Science 202 (Men) or Elective (Women)	2
Elective	3	Elective	4
	18		18

Third Year

Biology 445	2	Chemistry 312	5
Chemistry 310	5	Foreign Language	3
Foreign Language	3	Physics 132	5
Elective in Humanities	3	Psychology 211	3
Physics 131	5		
	18		16

Fourth Year

Biology 446	3	Biology 303	4
Chemistry 415	5	Chemistry 416	5
Elective	8	Elective in Humanities	3
		Sociology 331	3
		Elective	2
	16		17

PRE-DENTAL CURRICULUM

A student who is planning to enter dental school should follow the curriculum outlined for pre-medical work.

MEDICAL TECHNOLOGY

Students who are interested in becoming medical technicians may secure many of the required college courses at Eastern. The requirements for this type of work vary and the student should elect courses to meet particular requirements.

MEDICAL TECHNOLOGY CURRICULUM

First Year

First Semester	Hours	Second Semester	Hours
Biology 141	4	Biology 142	4
Chemistry 111	4	Chemistry 112	5
English 101	3	English 102	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Social Science 100	3	Social Science 101	3
Sociology 100	1	Sociology 101	1
	18		19

Second Year

Biology 342	5	Biology 347	4
Chemistry 211	5	Chemistry 212	5
Mathematics 107	3	Commerce 151	2
Military Science 201 (Men) or Elective (Women)	2	Health 202	2
Elective	3	Mathematics 113	3
		Military Science 202 (Men) or Elective (Women)	2
	18		18

Third Year

Biology 445	2	Biology 303	4
Chemistry 310	5	Biology 446	3
Physics 131	5	Chemistry 430	3
Elective	5	Commerce 230	3
		Physics 132	5
	17		18

Fourth Year

Work to be taken in an accredited hospital.

PRE-ENGINEERING CURRICULUM

A student may take one or two years of fundamental work at Eastern and then transfer to an engineering college without appreciable loss of credits if he chooses his courses wisely. The pre-professional requirements of a particular college of engineering should be chosen from Mathematics, Chemistry, Physics, and other basic subjects. Every Pre-Engineering student will receive help, upon request, from an advisor.

First Year

First Semester	Hours	Second Semester	Hours
Chemistry 111	4	Chemistry 112	5
English 101	3	English 102	3
Mathematics 107	3	Mathematics 108	2
Mathematics 113	3	Mathematics 232	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Sociology 100	1	Physics 107	1
		Sociology 101	1
	17		18

Second Year

Geography 221	3	Commerce 230	3
Industrial Arts 191	3	Industrial Arts 292	3
Mathematics 251	5	Mathematics 352	3
Military Science 201	2	Military Science 202	2
Physics 201	6	Physics 202	6
	19		17

SOCIAL WORK

Students who plan to do graduate work in social work or who plan to enter a field of social work with public or private agencies should concentrate on a modified major in the Social Sciences. The work should include Economics, Sociology, Psychology, History, and such additional areas as are needed for basic preparation. Opportunities for work are increasing in the child welfare, juvenile institutions, penal institutions, State social agencies, Federal services, the American Red Cross work, and in similar specialties

PRE-VETERINARY MEDICINE

Since 1950, Kentucky students have had the opportunity of entering veterinary medical training at Auburn University, Auburn Alabama, or at Tuskegee Institute,fi Tuskegee, Alabama. The State of Kentucky has made this possible through its participation in the Southern Regional Education program.

The State pays $1,500 per student per year through the Southern Regional Education Board to the institutions. Each year Auburn University holds twelve places and Tuskegee Institute holds two places for entering students from Kentucky. These students must meet admission requirements of the schools. If admitted, Kentucky students have the same status as Alabama students. They do not pay out-of-state tuition.

The minimum education requirement for admission to the School of Veterinary Medicine, Auburn University, is the satisfactory completion of two years of study in an approved accredited college or university. A total of 60 semester hours of college work must be completed with a grade point average of at least 1.75. In addition to the above, applicants are required to meet the military and physical training requirements in effect at the institution attended.

The two years of college work must include:

	Sem. Hrs.		Sem. Hrs.
Freshman English	6	Botany	3
American History	3	*Medical Vocabulary	3
College Algebra	3	General Poultry Husbandry	3
General Chemistry	9	Animal Nutrition	4
General Zoology	8	Farm Livestock Production	3
Trigonometry	3	Military Science	8
Physics	10	Physical Education	2
Organic Chemistry	10		

Applicants who have completed the requirements for a B. S. degree in Agriculture with a scholastic average of at least 1.75 are qualified for admission.

In the selection of students for admission to the School of Veterinary Medicine the Committee on Admissions gives due consideration to the applicant's background, adaptability to the profession, age, scholastic record, and residence. Personal interviews and aptitude tests may be required.

PRE-LAW CURRICULUM

No fixed, comprehensive pre-law curriculum is usually prescribed in law schools. However, prospective law students should keep in mind that a broad, basic and liberal education will equip one to study law and also prepare him for a vital role in the community once he has acquired his professional training. Thus he should pursue a degree program in pre-law in which he will learn to think clearly, will form sound study habits, and will have an opportunity to master the methodology and knowledge of a particular field under the guidance of good instructors. As a general rule, courses in English, accounting, logic, philosophy, a foreign language, speech, political science, history, the physical sciences, sociology, psychology, business administration and the social and behavioral sciences lend themselves to the breadth of background needed by a law student and a lawyer.

The importance of a sound background in use of the English language cannot be stressed too greatly. A fundamental knowledge of grammar, a good vocabulary, an ability to read rapidly with understanding, an ability to express one's thoughts in a clear and organized fashion, are all absolutely essential to success in the study of law. Any pre-law student who is deficient in English should take immediate steps to correct the situation by taking additional English courses, by seeking remedial help and by self-study. Otherwise he may be seriously handicapped in the study of law and may even jeopardize his admission to law school.

Eastern has arrangements made with a number of law colleges whereby the Freshman year in the law college can be transferred to Eastern and applied on the Bachelor's degree. By this plan a student may be able to earn both the Baccalaureate and law degree in six years.

PRE-FORESTRY CURRICULUM

Arrangements made through the Southern Regional Education Board provide for students who wish to prepare as professional foresters to do the first two years of their work at Eastern Kentucky State College and complete their training in two years and one summer at North Carolina State College in Raleigh.

First Year

First Semester	Hours	Second Semester	Hours
Biology 131	3	Biology 132	3
Chemistry 111	4	Chemistry 112	5
English 101	3	English 102	3
Mathematics 107	3	Mathematics 113	3
Military Science 101	2	Military Science 102	2
Physical Education 115	1	Physical Education 116	1
Sociology 100	1	Sociology 101	1
	17		18

Second Year

Biology 141	4	Agriculture 215	4
Biology 336	2	Biology 335	2
Commerce 230	3	History 247	3
History 246	3	Military Science 202	2
Military Science 201	2	Physics 132	5
Physics 131	5	Sociology 331	3
	19		19

OTHER PRE-PROFESSIONAL CURRICULA

The College affords courses for students who plan to do specialized work in nursing, library science, theology, and in other professional fields.

In addition to standard four-year pre-professional curricula, Eastern may approve specially arranged combined curricula. In these curricula, the student completes three years as outlined at Eastern to meet basic requirements and then transfers a year of successful work from a Grade A professional school in order to secure a B. S. or a A. B. degree from Eastern Kentucky State College. This plan may shorten by one year the time needed for obtaining both a baccalaureate and a professional degree.

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* Six semester hours of Modern Language may be substituted for Medical Vocabulary, or this course may be taken by correspondence by applying directly to the Director of Extension Teaching, Auburn, Alabama.

The John Grant Crabbe Library houses over 110,000 volumes.

THE LABORATORY SCHOOL

The campus laboratory school enrolls approximately 460 students with a staff of twenty-five full-time supervising teachers and additional instructors from the college. It is located in the new Donovan Building. The finest and most recent innovations of school architecture have been incorporated in this splendid building.

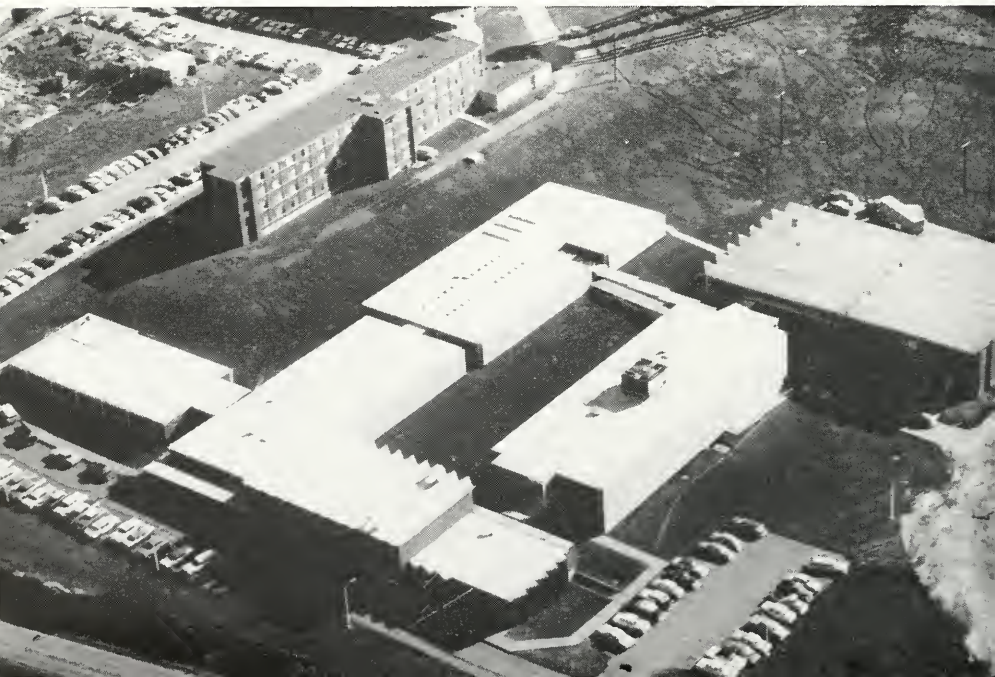
Pupils who attend the campus laboratory school come from the city and county in the surrounding community. The number of pupils for each grade is limited. Listed below are the tuition fees:

Kindergarten .....$72.00 per semester
Grades 1-12 .....$20.00 per semester

SUPERVISED STUDENT TEACHING

Student Teaching is done in the campus laboratory school or in affiliated public schools. Students wanting to do Student Teaching must fill an application twelve weeks prior to the term in which they are to do their Student Teaching. To be eligible for Student Teaching a student must: (1.) Be recommended by the head of the department in which they are majoring; (2.) have had at least one semester of residence work at Eastern and have placed all college credits on file in the Registrar's Office; (3.) have a standing of "C" in their major field as well as an overall standing of "C" in all their college work; (4.) meet certain standards in general scholarship, use of English, health, personality, and professional attitude.

The Donovan Building houses 450 students enrolled in the laboratory school. Shown at upper left are men's dorms, Mattox and O'Donnell Halls.



THE EXTENSION DIVISION

Eastern offers, through the Extension Division, a variety of courses by correspondence. These courses are prepared and conducted by regular members of the faculty and are, insofar as possible, identical with resident courses. They are especially designed for those who wish to obtain credit toward their certificates or degrees, or for those who want to increase their knowledge while continuing with their regular employment.

Off-campus extension classes are conducted in cities and communities where young people and adults may take college work in class groups under a regular member of the faculty in practically the same way as they would in residence.

Regulations Pertaining to Correspondence-Extension Work

1. Correspondence work may be taken by students enrolled in residence only upon the following conditions:
   a. Students enrolled in residence at Eastern must secure written approval of the Dean.
   b. Students enrolled in residence in other colleges or universities must secure written approval of their Dean.
   c. All high school pupils must secure written approval of their high school principal.
2. The Extension Division assumes no responsibility for courses taken to meet certification, College Entrance, or degree requirements through the institution from which he expects to graduate or through the state education department through which he expects to be certified.
3. Where courses are required for a degree, not more than one-half of the course requirements in any field in general education may be taken by correspondence and extension and not more than six semester hours in a major or minor field may be completed by correspondence and/or extension.
4. Students shall not be allowed to receive credit through extension and/or correspondence for more than six semester hours each semester or twelve semester hours during the regular school year of nine months or sixteen semester hours within a calendar year.
5. The minimum time within which one three-semester-hour course may be completed shall be five weeks; two three-semester-hour courses shall be ten weeks; one two-semester-hour course shall be four weeks; two two-semester-hour courses shall be eight weeks; one three-semester-hour course plus one two-semester-hour course shall be nine weeks.

6. Not more than thirty-two of the total semester hours required for a degree may be earned by extension, off-campus courses, and correspondence combined.
7. Seniors with ninety-two or more semester hours are restricted at Eastern to a maximum of six semester hours by correspondence and/or extension combined since at least thirty of the last thirty-six hours must be done in residence.
8. Students may enroll for not more than two correspondence or extension courses at any one time.
9. Correspondence work will not be accepted toward the completion of a graduate degree.
10. Graduate students may apply not more than six semester hours of off-campus class work toward the completion of the Master's degree.

For further details see the Extension Division Bulletin or write to the Director of Extension.

The Stephen Collins Foster Music Building, completely air-conditioned, is among the finest in the South.

THE GRADUATE DIVISION

PURPOSE

The Graduate Division offers work leading to the degree of Master of Arts in Education. The graduate program is planned to meet the needs of teachers in elementary and secondary schools and to provide graduate education for supervisors, principals, superintendents, attendance officers, counselors, guidance personnel, etc.

TYPES OF STUDENTS

Graduate courses are open to: (1) students who enter and become candidates for the degree of Master of Arts in Education; and (2) students who wish to broaden their education without reference to a graduate degree.

ADMISSION REQUIREMENTS

1. Applicants for admission to the Graduate Division must hold a bachelor's degree from an institution of recognized standing.

2. Official credentials should be filed with the Registrar and with the Dean of the College before entrance. These credentials must include, (a) a complete transcript of high school credits; (b) a complete transcript of college or university credits. If the transcript is not on file prior to entrance, admission will be tentative pending receipt and review of credentials.

3. Application for admission to the Graduate Division must be filed by a student with the Dean of the Institution. Admission to the Graduate Division does not necessarily imply admission to candidacy for the degree of Master of Arts in Education.

REQUIREMENTS FOR THE MASTER'S DEGREE

1. A person may receive the degree of Master of Arts in Education when he has completed other requirements set out in these regulations and in addition thereto has completed a four-year curriculum for the education of elementary or secondary teachers as prescribed by the Council on Public Higher Education or holds a certificate based upon four years of standard college preparation and valid for teaching in the state in which it was issued.

2. The student shall have an average standing of 2.0 and no credit shall be granted for a grade below "C".

3. Graduate students may take upper division courses but at least 50 per cent of all course work must be in courses open to graduate students only.

4. Requirements for the degree of Master of Arts in Education may be satisfied **by one** of the following plans:

Plan I—With a Thesis

The residence requirements shall be 36 weeks. The minimum course credit shall be twenty-four semester hours.

Plan II—Without a Thesis

The residence requirements shall be 36 weeks. The minimum credit shall be 30 semester hours.

5. Every candidate for the degree of Master of Arts in Education shall present a minimum of 9 semester hours of graduate credit in professional education and must have had a minimum of 27 semester hours at the undergraduate level and/or graduate level.

The minimum time in which a student who does not have a minimum of 12 semester hours in education, upon being admitted to the graduate school, shall be 45 weeks to complete course requirements for the degree of Master of Arts in Education.

6. The remainder of the course work shall be determined by the institution in terms of the student's need, provided that it shall be upper division and/or graduate courses.

7. The student shall pass a final examination on all fields presented toward fulfillment of requirements for the degree of Master of Arts in Education.

8. Teachers holding what would ordinarily be considered a full-time position shall not be permitted to receive graduate credit for more than 4 semester hours during any semester.

9. Residence credit for part-time study at the graduate level shall be 1½ weeks for each semester hour of credit and shall apply to students who carry less than a minimum full-time load.

10. One-half of the course requirements and one-half of the residence work shall be done as a full-time graduate student. In evaluating residence credits a summer term of 8 weeks with a minimum load of 6 semester hours of credit shall be regarded as 9 weeks in residence.

11. The average graduate student, unless special approval is secured from the Dean, should take a load ranging from 12 to 16 hours per semester with a maximum of 8 hours per summer term of 8 weeks.

12. Part-time graduate students with full-time positions are advised to take loads ranging from 2 to 4 hours per semester and are expected to meet the high standards prescribed for full-time students.

13. Twelve hours of graduate work earned on a part-time basis shall entitle the student to one semester of residence.

14. Those graduate students who plan to take the degree of Master of Arts in Education will be expected to take a comprehensive qualifying examination before they have proceeded very

far with their graduate program. The results of this examination will be used as a basis for guidance.

15. The student should have a graduate committee appointed during the first semester or summer term that he is a student at Eastern. The chairman of his graduate committee will act as his advisor.

16. A student preparing for the secondary certificate must select a major field of interest in which he has at least a minor of eighteen hours. If he does not have a minor, he will be required to take work at the undergraduate level sufficient to make the minor.

17. The Master's degree shall not be granted to one who does not have at least thirty hours in his major field, including both graduate and undergraduate work.

SEMINAR REQUIREMENTS

Seminars or research courses are required of graduate students. Two types of seminar are provided: (1) for graduate students who prepare a Master's thesis and (2) for students who do not prepare a thesis.

THE THESIS

The thesis should show, among other things, the following characteristics: (a) ability of the candidate to work independently on an approved problem; (b) a reasonable familiarity with the literature of the field of specialization; (c) a practical working knowledge of research methods; and (d) conclusions justified by supporting data.

The thesis must conform to regulations approved by the Graduate Council for writing theses. Two typewritten copies of the thesis must be filed in the College Library at least one week before the degree is conferred.

EXAMINATIONS

Before the graduate student can become a candidate for the Master's degree he must take a preliminary or qualifying examination. This examination is given each semester and each summer term. At least one-half of the work required for the degree must be completed after the qualifying examination.

The graduate student shall, upon official notification, pass an oral and/or written examination on his major, his minor fields, and his thesis.

APPLICATION FOR DEGREE

Application for the degree of Master of Arts in Education must be filed formally with the Registrar not later than the tenth week prior to the date on which the degree is to be conferred.

CURRICULA

The institution has worked out specific curricula for the following certificates: Standard Elementary Certificate, and twenty-four hours above sufficient to place the holder in Rank I; Standard High School Certificate, and twenty-four hours above sufficient to place the holder in Rank I; the Provisional Certificate for Principalship, and twenty-four hours above leading to the Standard Certificate for School Leaders; the Provisional Certificate for Supervisor, and twenty-four hours above leading to the Standard Certificate for School Leaders; the Provisional Certificate for Superintendent, and twenty-four hours above leading to the Standard Certificate for School Leaders; the Provisional Certificate for Guidance Counselor.

Information concerning these curricula may be obtained from the Associate Dean of Instruction in charge of Graduate Studies.

AREAS OF CONCENTRATION

Eastern offers areas of concentration in the following fields:

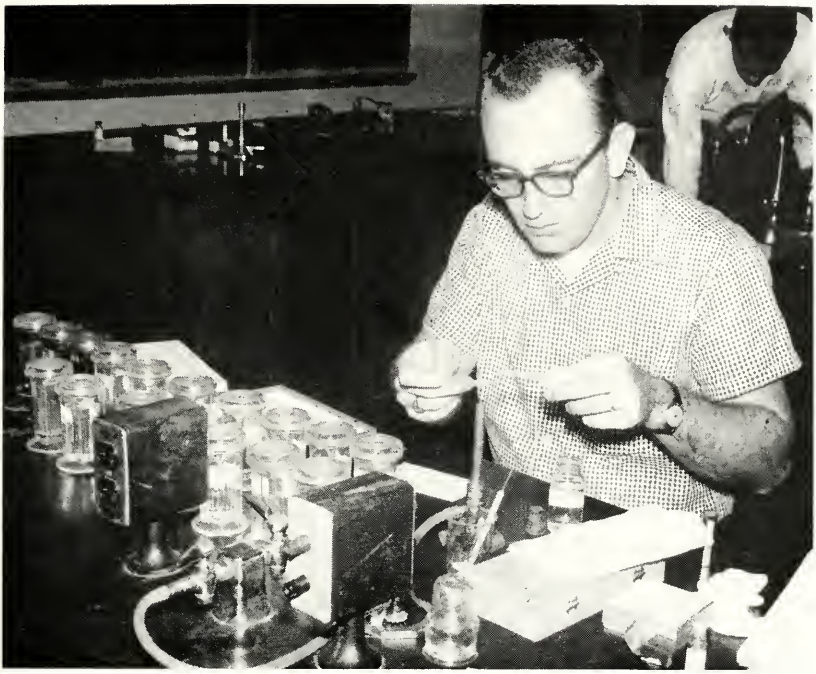
- Business Education
- English
- Foreign Languages
- Health, Physical Education, and Recreation
- Home Economics
- Industrial Arts
- Music
- Science
- Social Science

Eastern offers majors in the following subjects:

- Art
- Biology
- Chemistry
- Commerce
- English
- French
- Geography
- History
- History and Political Science
- Industrial Arts
- Latin
- Mathematics
- Music
- Physical Education
- Physics
- Political Science
- Spanish

Eastern offers minors in the following fields:

- Agriculture
- Art
- Biology
- Chemistry
- Commerce
- Drama
- English
- French
- Geography
- Geography and Geology
- Health
- History
- Home Economics
- Latin
- Library Science
- Mathematics
- Physical Education
- Physics
- Political Science
- Spanish
- Speech



PART FIVE

Courses of Instruction

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The Departments of Instruction on the following pages are arranged in alphabetical order. Schedules are prepared on the basis of recommended curricula. Students who follow the recommended curricula will avoid most conflicts.

AGRICULTURE

The University of Kentucky and the Eastern Kentucky State College are cooperating in the preparation of Vocational Agriculture teachers and in providing other training in Agriculture.

In accordance with this plan, Eastern will offer two years of the curriculum leading to the degree in Agriculture at the University of Kentucky. Hours earned beyond the sophomore level may not be transferable. Upper division courses are offered for the convenience of students who plan to graduate at Eastern with a field or minor in Agriculture.

All courses given in the Eastern Kentucky State College will constitute a part of the regular program of instruction of the College of Agriculture and Home Economics of the University of Kentucky and will carry both course and residence credit toward the degree of Bachelor of Science in Agriculture awarded by the College of Agriculture and Home Economics.

AGRICULTURE

(Recommended curriculum for a major in Agriculture)

First Year

First Semester	Hours	Second Semester	Hours
Agriculture 125	3	Agriculture 126	3
Agriculture 130	3	Agriculture 131	3
Biology 131	3	Commerce 230	3
English 101	3	English 102	3
Military Science 101	2	Mathematics 107	3
Physical Education 115	1	Military Science 102	2
Sociology 100	1	Physical Education 116	1
		Sociology 101	1
	16		19

Second Year

Agriculture 211	3	Agriculture 223	3
Agriculture 243	3	Agriculture 241	3
Agriculture 250	3	Chemistry 112	5
Chemistry 111	4	Military Science 202	2
Military Science 201	2	Speech 131	3
Elective	2		
	17		16

Recommended Curriculum for a Minor in Agriculture

A student with a major and minor in other departments may take a minor in Agriculture by completing eighteen hours approved by the head of the department.

AGRICULTURE

LOWER DIVISION COURSES

Agriculture 121. Breeds of Livestock. **Three hours.**

A survey of the different kinds of farm livestock which includes origin, development, outstanding characteristics, and the strong and weak points of each breed. This course will more fully acquaint the student with the breeds of livestock that are currently being used in commercial production. Two hours lecture and two hours laboratory.

Agriculture 125. (Formerly Agriculture 25.) Farm Livestock Production. **Three hours.**

Importance and use of livestock products; present types; market classes and grades of beef cattle, sheep, swine, horses and mules; the origin, development, and characteristics of the more important breeds. Lecture three hours, laboratory one hour.

Agriculture 126.. (Formerly Agriculture 11.) Farm Poultry Production. **Three hours.**

Principles of poultry husbandry; breeds and poultry improvement; selection and culling; incubation and brooding; feeding, housing and disease control; marketing poultry products. Lecture three hours, laboratory one hour.

Agriculture 129. Livestock Management. **Two hours.**

Intensive training in livestock management practices with emphasis on the preparation of animals for show or sale. Laboratory four hours.

Agriculture 130. Introduction to Agronomy. **Three hours.**

This course touches very briefly upon the many broad areas of agronomy so that the student may better understand the relationship that exists between them. This will give a foundation of general information upon which the specific courses in crop production and soils may be built. Lecture three hours.

Agriculture 131. (Formerly Agriculture 12.) General Horticulture. **Three hours.**

A study of the basic principles of fruit and vegetable production; hot bed and cold frame management; garden and orchard planning. Lecture three hours.

Agriculture 152. (Formerly Agriculture 352.) Farm Motors. **Three hours.**

Operation and repair of motors, tractors and tractor equipment. Fundamental principles governing the selection and care of this equipment on the farm. Lecture one hour, laboratory four hours.

Agriculture 200. Apiculture. **Three hours.**

The anatomy of the honey bee; the colony, location and equipment of the apiary; production of comb and extracting honey; diseases and enemies of bees; observation and manipulation of beekeeping equipment. Lecture two hours, laboratory two hours.

Agriculture 211. (Formerly Agriculture 20.) Elementary Farm Crops. **Three hours.**

A study of field crop production; pasture management; weed control; crop rotation; inoculation; tillage; and seed selection. Lecture three hours.

Agriculture 215. (Formerly Agriculture 30 and 315.) Soils. **Four hours.**

Prerequisite: Two semesters of general chemistry.

Soil origin, classification, and properties; soil conservation; soil microorganisms; organic matter; soil water; soil minerals; lime; commercial fertilizers; soil erosion; and soil management. Lecture three hours, laboratory two hours.

Agriculture 221. (Formerly Agriculture 31 and 321.) Principles of Animal Nutrition. **Four hours.**

Prerequisite: Chemistry 111.

Digestion, absorption, assimilation and utilization of nutrients by domestic animals; principal feeds, rations and nutritive ratios. Lecture three hours, laboratory two hours.

Agriculture 223. (Formerly Agriculture 21.) Farm Dairying. **Three hours.**

Milk as a food; market milk; milk sanitation; dairy inspection; bacteriology of milk; scoring milk and cream; laboratory tests for various dairy products, production costs, pasteurization; refrigeration. Lecture two hours, laboratory two hours.

Agriculture 225. Judging Dairy Cattle. **Three hours.**

Prerequisite: Agriculture 223.

Selection of sires, cows, heifers with due consideration for breed and dairy type; application of principles involved in the problem of herd improvement. Laboratory six hours.

Agriculture 228. Animal Hygiene. **Three hours.**

A study of the measures designed to promote health and prevent diseases of livestock. Special consideration given to feed and water, housing and ventilation, yards and pastures, sanitation and environment. Lecture three hours.

Agriculture 240. (Formerly Agriculture 440.) Soil Conservation. **Three hours.**

Prerequisite: Agriculture 215.

Conservation of soils and their fertility; erosion and control; soil conservation methods for individual farms. Lecture three hours.

Agriculture 241. (Formerly Agriculture 41 and 441.) Agricultural Economics. **Three hours.**

The problems of economics as applied to agriculture; a study of the agricultural industry from historic, geographic and economic approaches. Lecture three hours.

Agriculture 243. (Formerly Sociology 14.) Rural Sociology. **Three hours.**

Historical backgrounds; movements, resources, and problems of rural communities; rural-urban relationships; rural people; problems of rural youth; agriculture and its problems of adjustment; community organizations and institutions; adult education; public health; rural recreation; social welfare; community organization and local government; relationship of the school to other institutions and agencies of the rural community; location and use of educational materials and resources of the community; state and national policies for the improvement of rural society. Lecture three hours.

Agriculture 250. (Formerly Agriculture 23.) Farm Shop. **Three hours.**

Care and repair of farm tools; tool grinding; soldering; painting; concrete work; shop exercises in the construction of farm equipment. Lecture one hour, laboratory four hours.

Agriculture 251. (Formerly Agriculture 24.) Farm Structural Engineering. **Three hours.**

The construction, care and repair of farm buildings and equipment. Includes study and practice in farm surveying; drainage; terracing; and exercises involving the use of the transit and level. Lecture one hour, laboratory four hours.

Agriculture 252. (Formerly Agriculture 34.) Mechanics of the Farmstead. **Three hours.**

Selection and care of farm machinery; electric motors; power transmission; care and repair of electric equipment in the home and on the farm. Lecture one hour, laboratory four hours.

Agriculture 261. Elementary Landscape. **Three hours.**

A consideration of the elementary principles of landscape as applied to the planting of urban home grounds and farmsteads.

UPPER DIVISION COURSES

(Open to Junior and Senior Students)

Agriculture 300. General Agriculture. **Three hours.**
This course consists of a broad general study of soils, cereal and forage crops, livestock, poultry and vegetables. It is designed for students not majoring in Agriculture who would like to make a general, introductory study of agriculture.

Agriculture 304. (Formerly Health 31.) Dairy Bacteriology. **Five hours.**
Prerequisite: Biology 303.
Control of microorganisms in dairy and food products; bacterial analysis of dairy and food products; sanitation on the farm. Lecture two hours, laboratory four hours.

Agriculture 312. Advanced Crops: Forage Crops. **Three hours.**
Prerequisites: Agriculture 211.
A study of the practices and principles of forage crops, especially grasses and legumes suited to Kentucky farms. Lecture three hours.

Agriculture 324. (Formerly Agriculture 22 and 224.) Dairy Cattle Management. **Three hours.**
Prerequisite: Agriculture 221.
Dairy cattle breeds; judging; feeding; calf raising; pedigrees; production; testing; dairy barn construction; equipment. Lecture three hours.

Agriculture 327. (Formerly Agriculture 44 and 227.) Beef Production. **Three hours.**
Prerequisites: Agriculture 125 and 221.
History and importance of the beef cattle industry; selection, breeding, feeding and management of beef cattle. Lecture two hours, laboratory two hours.

Agriculture 328. (Formerly Agriculture 26 and 228.) Pork Production. **Three hours.**
Prerequisites: Agriculture 125 and 221.
Types and breeds of swine; selection; breeding; feeding; disease control. Lecture two hours, laboratory two hours.

Agriculture 329. Sheep Production. **Three hours.**
Prerequisites: Agriculture 125 and 221.
History and importance of the sheep industry; selection, breeding, feeding and management of sheep; production and handling of wool. Lecture two hours, laboratory two hours.

Agriculture 345. (Formerly Agriculture 32.) Farm Management. **Three hours.**
Prerequisites: Commerce 230 and Agriculture 241.
Factors affecting the organization and management of farms; cost of production; profits; types of farming; soil management; cropping systems; livestock enterprises; farm labor; rental agreements; farm machinery and equipment; farm layout. Lecture three hours.

Agriculture 347. (Formerly Agriculture 33.) Farm Accounting. **Three hours.**
The fundamental principles of accounting applied to farm accounts; financial statements; depreciation; production costs. Lecture three hours.

Agriculture 442. Marketing. **Three hours.**
Prerequisite: Agriculture 241.
A study of the problems involved in marketing farm produce; livestock markets; classes and functions of middlemen; grading and standardization; wholesaling and retailing; transportation and storage; financing; prices; speculation; cooperative markets. Lecture three hours.

ART

(Recommended curriculum for a major in Art with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
Art 117	3	Art 118 or Art 201	3
English 101	3	English 102	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Science 111	3	Science 112	3
Social Science 100	3	Social Science 101	3
Sociology 100	1	Elective	2
		Sociology 101	1
	16		18

Second Year

Art 200	3	Art 217	3
Art 202	3	Art 260	3
English 211	3	English 212	3
History 246	3	History 247	3
Military Science 201 (Men) or Elective (Women)	2	Military Science 202 (Men) or Elective (Women)	2
Elective	3	Psychology 211	3
	17		17

Third Year

Art 361	3	Art 227	3
Art 390	3	Art 391	3
Education 315	2	Education 316	2
Health 201	3	Science 110	3
Science 109	3	Elective	6
Electives	3		
	17		17

Fourth Year

Art 322	3	Education 364	6
Art 461	3	Education 463	10
Education 384	2		
Elective	9		
	17		16

Recommended Curriculum for a Second Major in Art

A student with a first major in some other department may take the following courses for a second major in Art: 117, 118 or 201, 200, 202, 217, 260, 322, 361 or 461, 390.

Recommended Curriculum for a Minor in Art

A student with a major and a minor in other departments may take the following courses for a minor in Art: 117, 118, 200, 201 or 202, 322, 390.

ART

LOWER DIVISION COURSES

Art 117. (Formerly Art 10.) Drawing and Design. **Three hours.**
Orientation of the student to the basic knowledges and skills in art through the use of pencil, tempera, water color, and colored chalks. This foundation course is planned to develop an understanding and appreciation of the principles of creative design as applied to the visual arts.

Art 118. (Formerly Art 11.) Art Media. **Three hours.**
Prerequisite: Art 117, or a similar course in introductory art.
Designed to meet individual needs and abilities in a variety of problems in landscape, still life and figure drawing; media—charcoal, pen and ink, pastels, water color, tempera, pencil and oils.

Art 200. (Formerly Art 22.) Art Appreciation: Orientation. **Three hours.**
Designed to establish a basis for judgment and good taste in the consideration and use of art in daily living through the study of examples of architecture, sculpture, painting, weaving, the art of the book, and ceramics.

Art 201. (Formerly Art 20.) Drawing, Painting, and Composition. **Three hours.**
Prerequisite: Art 117.
Emphasizing technical skill and creative ability in the use of charcoal, pastels, oils, and water colors; study of still life; outdoor sketching; figure composition; artistic anatomy.

Art 202. (Formerly Art 21.) Ceramics and Ceramics Sculpture. **Three hours.**
Prerequisite: Art 117.
Creative experience in three dimensional composition given for the purpose of developing a stronger sense of plastic form; objects molded by hand, and on the potter's wheel.

Art 217. (Formerly Art 23.) Lettering and Poster Design. **Three hours.**
Development of ability to apply art principles in the production of hand lettering; lettering structure; spacing; poster design.

Art 218. Advanced Lettering and Commercial Design. **Two hours.**
Prerequisite: Art 217.
Designed to meet the needs of those who wish to pursue lettering as a commercial phase of art; problems in block printing and silk screen; folders and advertising layout.

Art 219. (Formerly Art 29.) Design. **Two hours.**
Designed to meet the needs of the major in Art, Industrial Arts, and Home Economics. Formal drill in the elements of design to meet the needs of the student who wishes to become more efficient in the creative experience in structural and decorative design.

Art 220. (Formerly Art 24.) Problems in Interior Design. **Two hours.**
Prerequisite: Art 117.
A survey of the principles of design in all interiors; art elements—color, form, and line in furniture and furnishings; problems in house plans and blueprint reading.

Art 221. (Formerly Art 25.) Fashion Illustration. **Two hours.**
Prerequisite: Art 117.
Problems designed to develop the student's ability to represent the costume in different art media and to help him understand technical problems of fashion illustration; commercial layouts; readings in the history of costume.

Art 227. (Formerly called Applied Design.) Structural Design. **Three hours.**

Prerequisite: Art 117, or its equivalent.

Development of craftsmanship in the use of design in carving wood, stone, clay, plaster, soap, leather. Sculptures in the round, in relief, and mobiles are analyzed for the purpose of improving the student in techniques of carving.

Art 260. (Formerly Art 26.) Public School Art. **Three hours.**

Designed to meet the needs of the classroom teacher in understanding the place of art in the general curriculum of the elementary school by correlation and integration, and by appreciation as a special subject. Problems are used to develop art skills, and to enable the teacher to understand the interests and abilities of the child.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Art 321. (Formerly Art 30.) Drawing and Illustration. **Three hours.**

Prerequisite: Art 117.

Emphasizing skill in drawing and illustration of ideas; specific study of perspective; pictorial composition; illustration of stories; murals; media—pencil, charcoal, water color, and ink.

Art 322. (Formerly Art 31.) Color and Design. **Three hours.**

Prerequisite: Art 117.

Color theory as related to pigments and sensation; practical color notation; application of color in design.

Art 361. (Formerly Art 36.) Art Education in the Elementary School. **Three hours.**

Prerequisite: Art 117 and 260.

Designed to give teachers a knowledge of the theory and practice of art in their school problems; unit planning; materials and methods.

Art. 390. Art Appreciation: Survey. **Three hours.**

Prerequisite: Art 200.

Egyptian, Tigris-Euphrates Valley, Aegean, Greek, Etruscan and Roman, Far Eastern, Art of Early Americas, Early Christian-Byzantine, Romanesque, Gothic.

Art 391. Art Appreciation: Survey, **Three hours.**

Continuation of Art 390, beginning with the Renaissance and ending with the art of today.

Art 421. (Formerly Art 40.) Advanced Drawing, Painting and Design. **Three hours.**

Studio practice in drawing, painting and design; orchestration of colors; research in artist's media—charcoal, pastel, oil, and water color.

Art 422. (Formerly Art 41.) Advanced Pictorial Composition. **Three hours.**

Painting from nature; field trips; studio criticism; creative design problems in decorative landscape and figure composition—pencil, pastel, water color, oil, and tempera.

Art 423. (Formerly Art 42.) Art Appreciation: Architecture and Sculpture. **Three hours.**

Prerequisite: Art 390.

Achievements in architecture and sculpture of the following periods: Prehistoric, preclassical, Greek, Roman, Early Christian, Byzantine, Romanesque, Gothic, Renaissance, American, and contemporary.

Art 424. (Formerly Art 43.) Art Appreciation: Painting. **Three hours.**

Prerequisite: Art 390.

Great periods and masters of painting: Italian, Flemish, German, Spanish, Dutch, English, French, and American.

Art 425. Advanced Water Color Painting. **Three hours.**

Prerequisite: Art 117 and 118, or 201, 421 or 422.

Designed to meet the needs of students who wish to develop further the technique of water color painting. Practice in the various approaches to water color painting by study of the great water colorists and their work. Outdoor work, still life arrangements in creative design and studio criticism.

Art 461. (Formerly Art 46.) The Arts in the High School. **Three hours.**

Prerequisites: Art 117 and 260.

Survey of art in the secondary schools for the purpose of examining the theories and practices in the rural and city high schools. Practice in planning units and courses of study which will give an understanding of our heritage in the arts, and an appreciation of art in daily living.

Art 462. Art Appreciation: Art Principles. **Two hours.**

Prerequisite: Art 424.

Designed for the study of aesthetic standards in architectural, sculptural and pictorial composition; current art principles; taste and evaluation; analysis of selected examples of art.

Art 463. Problems in Art. **One to three hours.**

Designed to meet the needs of students who wish to continue certain art projects started in other courses. Problems in painting, design, ceramics, and problems in research in the arts are considered. Limited to seniors and graduate students.

GRADUATE DIVISION COURSES

Art 501. Art Appreciation: Great Periods and Their Influences. **Three hours.**

Prerequisite: Six hours in Art.

A course for graduate students who want to pursue art study as it is applied to the examination of the arts and ideas of great periods of development in the Western world.

Art 502. The Arts Program in the Public School. **Three hours.**

Prerequisite: Six hours in Art.

A study of the origin, trends, philosophy, and current practices in the art programs of the public schools. Types of programs in the elementary and secondary school will be considered and evaluated. Special attention will be given to program planning, selection and procurement of materials and art room facilities, preparation of teaching personnel, and in-service workshops.

BIOLOGY

(Recommended curriculum for a major in Biology with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
Biology 131 or 141	3 or 4	Biology 132 or 142	3 or 4
English 101	3	English 102	3
Mathematics 107 or Chemistry 111	3 or 4	Mathematics 113 or Chemistry 112	3 or 5
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Social Science 100	3	Social Science 101	3
Sociology 100	1	Sociology 101	1
	16 or 18		16 or 19

Second Year

Biology 131 or 141	3 or 4	Biology 132 or 142	3 or 4
Chemistry 111 or Physics 131	4 or 5	Chemistry 112 or Physics 132	5
English 211	3	English 212	3
Military Science 201 (Men) or Elective (Women)	2	Military Science 202 (Men) or Elective (Women)	2
*Elective in Humanities	3	Psychology 211	3
Elective	2		
	17 or 19		16 or 17

Third Year

Biology 303	4	Biology 229	4
Biology 325	3	Biology 335 or 345	2 or 3
Education 315	2	Education 316	2
History 246	3	History 247	3
Elective	5	Elective	6
	17		17 or 18

Fourth Year

Education 384	2	Education 364	6
Geology 301	3	Education 463	10
Health 201	3		
*Elective in Humanities	3		
Elective	5		
	16		16

Recommended Curriculum for a Second Major in Biology

With right of teaching certificate.—A student with a first major in some other department may take the following courses for a second major in Biology: Biology 131, 132, 141, 142, 229, 325, 303 or 332 or 342, 335, 345, and nine hours of Chemistry or ten hours of Physics.

Recommended Curriculum for a Minor in Biology

A student with a major and a minor in other departments may take the following courses for a minor in Biology: Biology 131, 132, 141, 142, 229, 325, 335 or 345, and four hours of Chemistry or five hours of Physics.

*Electives to include six hours chosen from the following courses: Art 200, Art 390, Art 391, Foreign Language six hours, History 498, History 499, Music 271, Music 371, Music 372.

BIOLOGY

(Recommended curriculum for a major in Biology without right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
Biology 131 or 141	3 or 4	Biology 132 or 142	3 or 4
English 101	3	English 102	3
Mathematics 107 or Chemistry 111	3 or 4	Mathematics 113 or Chemistry 112	3 or 5
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Social Science 100	3	Social Science 101	3
Sociology 100	1	Sociology 101	1
	16 or 18		16 or 19

Second Year

Biology 131 or 141	3 or 4	Biology 132 or 142	3 or 4
Chemistry 111 or Physics 131	4 or 5	Chemistry 112 or Physics 132	5
English 211	3	English 212	3
History 246	3	History 247	3
Military Science 201 (Men) or Elective (Women)	2	Military Science 202 (Men) or Elective (Women)	2
Elective	2		
	17 or 19		16 or 17

Third Year

Biology Elective	4	Biology Elective	4
*Elective in Humanities	3	Health 201	3
Elective	9	*Elective in Humanities	3
		Elective	7
	16		17

Fourth Year

Biology Elective	3	Biology Elective	3
Electives	13	Electives	13
	16		16

Recommended Curriculum for a Second Major in Biology

Without right of teaching certificate.—A student with a first major in some other department may take the following courses for a second major in Biology: Biology 131, 132, 141, 142, and 14 hours elective in Biology; nine hours of Chemistry or ten hours of Physics.

*Electives to include six hours chosen from the following courses: Art 200, Art 390, Art 391, Foreign Language six hours, History 498, History 499, Music 271, Music 371, Music 372.

BIOLOGY

LOWER DIVISION COURSES

Biology 131. (Formerly Biology 121.) General Botany I **Three hours.**

An introductory study of the structure, physiology and ecology of higher plants, with emphasis on basic biological principles. Two lectures and two laboratory hours.

Biology 132. (Formerly Biology 121) General Botany II. **Three hours.**

Prerequisite: Biology 131, or Science 111 and 112.

An introductory study of phylogeny, genetics, ecology, economics and evolution of plants, with emphasis on basic biological principles. Two lectures and two laboratory hours.

Biology 141. (Formerly Biology 122.) General Zoology I. **Four hours.**

An introductory study of the structure, physiology, ecology, phylogeny and economics of animals, with emphasis on basic biological principles. Two lectures and four laboratory hours.

Biology 142. (Formerly Biology 122.) General Zoology II. **Four hours.**

Prerequisite: Biology 141.

A continuation of Biology 141, General Zoology I. Two lectures and four laboratory hours.

Biology 200. Photography. **Two hours.**

Prerequisite: Permission of instructor. Does not count as credit toward a degree in biology.

The theory and use of cameras, films, filters; the theory and practice of developing, fixing, printing, enlarging, reducing and lantern slide making. One lecture hour and three laboratory hours.

Biology 219. (Formerly Biology 29 and 29h.) Physiology. **Three hours.**

Offered for home economics students and physical education students. Credit does not apply toward a major in Biology.

Prerequisite: Science 111.

Fundamental principles of human physiology, with emphasis on the functioning of the circulatory, respiratory, digestive, and excretory systems. Three lecture hours.

Biology 225. (Formerly Biology 25.) Applied Anatomy. **Three hours.**

Prerequisite: Science 111 and 112 or Biology 141 and 142.

Anatomy of the human body, with emphasis on the skeleton, muscles and nervous system and their function in physical exercise. One lecture and four laboratory hours.

Biology 229. (Formerly Biology 29.) Human Physiology. **Four hours.**

Prerequisite: Biology 141 and 142 and Chemistry 111.

A study of the functions of the circulatory, respiratory, digestive, excretory, endocrine, nervous and reproductive systems. Two lectures and four laboratory hours.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Biology 303. (Formerly Health 303.) General Bacteriology. **Four hours.**
Prerequisite: Chemistry 111, 112 or Biology 131 and 132.
Study of the morphology, classification and physiology of bacteria; relation of bacteria to fermentations, foods, soil fertility, disease, and industry; methods of culture and of study, media, sterilization, staining techniques. Two lecture hours, and four laboratory hours.

Biology 310. Human Heredity and Eugenics. **Three hours.**
Credit does not apply toward a major in Biology.
A study of inheritance in humans including its implications upon society and the human race. Three lecture hours.

Biology 325. (Formerly Biology 35.) Genetics. **Three hours.**
Prerequisite: Science 112 or Biology 132 or 142.
Laws governing inheritance, variations and evolution in plants, animals and man; the role of heredity in the improvement of cultivated plants, domesticated animals and the human race. Three lecture hours.

Biology 332. (Formerly Biology 21.) Plant Morphology. **Three hours.**
Prerequisite: Biology 131 and 132.
A comparative morphology of the plant phyla. Six lecture-demonstration-laboratory hours.

Biology 334. (Formerly Biology 32.) Plant Physiology. **Three hours.**
Prerequisite: Biology 131 and 132.
A study of the chemical, physical and biological processes which occur in vascular plants. Six lecture-demonstration-laboratory hours.

Biology 335. (Formerly Biology 30.) Local Flora. **Two hours.**
Prerequisite: Biology 131 and 132.
The identification, classification and phylogeny of vascular plants; principles of taxonomy; field trips required. Four laboratory hours.

Biology 336. (Formerly Biology 31.) Woody Plants. **Two hours.**
The identification and classification of local trees and shrubs; key construction. Four laboratory hours.

Biology 342. (Formerly Biology 27 and 28.) Comparative Anatomy. **Five hours.**
Prerequisite: Biology 141 and 142.
Chordate characteristics and taxonomy; comparative anatomy of the principle organ systems: emphasis in laboratory upon lower chordate, fish, amphibian, bird and cat. Three lecture and four laboratory hours.

Biology 343. (Formerly Biology 37.) Entomology. **Three hours.**
Prerequisite: Biology 141 and 142.
Taxonomy, identification, life histories, physiology, economic importance, methods of control and collection of insects, with emphasis on local forms. One lecture and four laboratory hours.

Biology 344. (Formerly Biology 38; formerly called Bird Study) Ornithology. **Two hours.**
Identification, anatomy, physiology, economic importance and natural history of birds. Early morning field trips will be required. One lecture, two laboratory hours.

Biology 345. Field Zoology. **Three hours.**
Prerequisite: Biology 141 and 142.
Taxonomy, identification, habits and economic importance of local animals, with emphasis on vertebrates. Six laboratory hours.

Biology 347. (Formerly Biology 47.) Embryology. **Four hours.**
Prerequisite: Biology 342.
Detailed study of the embryology of the starfish, frog, and chicken, with some consideration of mammalian embryology. Two lecture and four laboratory hours.

Biology 360. Fundamentals of Biology I. **Four hours.**
General principles of biology, including studies in Morphology, Anatomy, Physiology, Ecology, Heredity and Evolution of plants and animals. Lecture two hours; laboratory and discussion four hours.

Biology 401. Biology for High School Teachers I. **Three hours.**
Prerequisite: One year of college biology.
Basic principles of botany and zoology which will be of special interest to in-service teachers of science; modern concepts and recent discoveries in biology; new approaches to biology at the high school level. Lecture two hours, laboratory and discussion two hours.

Biology 402. Biology for High School Teachers II. **Three hours.**
A continuation of Biology 401. Lecture two hours, laboratory and discussion two hours.

Biology 433. Economic Plants. **Three hours.**
The economic importance of plants and plant products; the utility of plants in relation to wood products, textiles, foods, condiments, beverages, drugs, poisons; the role of plants in ornamentation, conservation and world events Three lecture hours.

Biology 441. (Formerly Biology 44.) Invertebrate Zoology. **Four hours.**
Prerequisite: Biology 141 and 142.
Characteristics, life histories, taxonomy, ecology and evolution of the invertebrates. Two lecture and four laboratory hours.

Biology 444. (Formerly Biology 45.) Parasitology. **Three hours.**
Prerequisite: Biology 141 and 142.
The morphology, life histories, epidemology and methods of diagnosis and control of animal parasites, with emphasis upon those of man and domesticated animals. Two lecture and three laboratory hours.

Biology 445. Microtechnique. **Two hours.**
Prerequisite: Biology 141 and 142 or Biology 131 and 132.
The technique of preparing plant and animal tissues for microscopic study. Four laboratory hours.

Biology 446. Histology. **Three hours.**
Prerequisite: Biology 342.
The microscopic study of animal tissues and an introduction to organology. One lecture hour and four laboratory hours.

Biology 451. Ecology. **Three hours.**
Prerequisite: Biology 131, 132, 141, 142.
The relation of plants and animals to their environment. Field trips required. Two lecture hours, three laboratory hours.

Biology 481. (Formerly Biology 48.) Animal Physiology. **Four hours.**
Prerequisite: Biology 141, 142 and Chemistry 111.
Detailed study of the chemistry and physics of the physiological activities of animals. Two lecture and four laboratory hours.

Biology 491. (Formerly Biology 49.) Problems in Biology. **Two to four hours.**
Prerequisite: Departmental permission.
The individual study of special problems in biology.

GRADUATE DIVISION COURSES

Biology 501. Advanced Botany I. **Three hours.**

Individual study in one or two fields of botany selected to meet the specific needs of the student. Topics may be selected from such areas as anatomy, physiology, taxonomy, mycology, morphology, and ecology. Laboratory work will be stressed. Six lecture-discussion-laboratory hours.

Biology 502. Advanced Botany II. **Three hours.**

A continuation of Biology 501.

Biology 503. Advanced Zoology I. **Three hours.**

Individual study in one or two fields of zoology selected to meet the specific needs of the student. Topics may be selected from such areas as morphology, physiology, taxonomy, ecology, invertebrate zoology, anatomy, and embryology. Laboratory work will be stressed. Six lecture-discussion-laboratory hours.

Biology 504. Advanced Zoology II. **Three hours.**

A continuation of Biology 503.

Biology 505. Principles of Biology I. **Three hours.**

A study of the basic principles of biology and the history of their development. Included may be such topics as the cell theory, evolution, anthropology, inheritance, conservation, alternation of generations, ontogeny, life, classical experiments, economics and philosophy. Three lecture-discussion hours.

Biology 506. Principles of Biology II. **Three hours.**

A continuation of Biology 505.

Biology 511. Biology for Elementary Teachers. **Three hours.**

Experiments and demonstrations essential to the teaching of biological concepts of science in grades K through 6. Six discussion-laboratory hours.

CHEMISTRY

(Recommended curriculum for a major in Chemistry with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
Biology 131 or 141	3 or 4	Biology 132 or 142	3 or 4
Chemistry 111	4	Chemistry 112	5
English 101	3	English 102	3
Military Science 101 (Men) or *Elective (Women)	2	Military Science 102 (Men) or *Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Social Science 100	3	Social Science 101	3
Sociology 100	1	Sociology 101	1
	17 or 18		18 or 19

Second Year

Chemistry 211	5	Chemistry 212	5
English 211	3	English 212	3
History 246	3	History 247	3
Mathematics 107	3	Mathematics 113	3
Military Science 201 (Men) or *Elective (Women)	2	Military Science 202 (Men) or *Elective (Women)	2
	16		16

Third Year

Chemistry 310	5	Education 315	2
Health 201	3	Physics 132	5
Physics 131	5	*Elective	9
Psychology 211	3		
	16		16

Fourth Year

Chemistry 415	5	Education 364	6
Education 316	2	Education 463	10
Education 384	2		
*Elective	7		
	16		16

Recommended Curriculum for a Second Major

A student with a first major in some other department may take the following courses for a second major in Chemistry: Chemistry 111, 112, 211, 212, 310.

Recommended Curriculum for a Minor in Chemistry

A student with a major and a minor in other departments may take the following courses for a minor in Chemistry: Chemistry 111, 112, 211, 310.

*Electives to include six hours chosen from the following courses: Art 200, Art 390, Art 391, Foreign Language six hours, History 498, History 499, Music 271, Music 371, Music 372.

CHEMISTRY

(Recommended curriculum for a major in Chemistry without right of teaching certificate).

First Year

First Semester	Hours	Second Semester	Hours
Chemistry 111	4	Chemistry 112	5
English 101	3	English 102	3
Mathematics 107	3	Mathematics 113	3
Military Science 101 (Men) or		Military Science 102 (Men) or	
Elective (Women)	2	Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Social Science 100	3	Social Science 101	3
Sociology 100	1	Sociology 101	1
	17		18

Second Year

Chemistry 211	5	Chemistry 212	5
English 211	3	English 212	3
History 246	3	Geology 301 or 305	3
Mathematics 108	2	History 247	3
Military Science 201 (Men) or		Mathematics 232	3
Elective (Women)	2	Military Science 202 (Men) or	
Elective	3	Elective (Women)	2
	18		19

Third Year

Chemistry 310	5	Chemistry 312	5
Foreign Language	3	Foreign Language	3
Mathematics 251	5	Mathematics 352	3
Physics 131	5	Physics 132	5
	18		16

Fourth Year

Chemistry 415	5	Chemistry 416	5
Chemistry 420	4	Foreign Language	3
Foreign Language	3	Physics Elective	3
Physics 203	3	Elective	5
Elective	3		
	18		16

*Students desiring to pursue a program working toward a profesional chemist should check with the Chemistry Department regarding additional requirements.

CHEMISTRY

LOWER DIVISION COURSES

Chemistry 111. (Formerly Chemistry 11.) General Chemistry. **Four hours.**
The fundamental theories and laws of inorganic chemistry; the preparation, properties, and uses of the more common elements and their compounds; explanation of chemical symbolism. Three lecture and two laboratory hours.

Chemistry 112. (Formerly Chemistry 13.) General Chemistry. **Five hours.**
Continuation of the laws and theories of inorganic chemistry; study of organic chemistry, electro-chemistry, and the metals. Three lecture and four laboratory hours.

Chemistry 112b. General Chemistry. **Four hours.**
Subject matter similar to Chemistry 112 but emphasis on topics of importance to students majoring in Home Economics. In the course, the study of Organic Chemistry, Nutrition and similar subjects is made. Three lecture and two laboratory hours.

Chemistry 211. (Formerly Chemistry 21 and 22.) Qualitative Analysis. **Five hours.**
Prerequisites: Chemistry 111 and 112.
Reactions of cations and anions; solutions; equilibrium; oxidation and reduction; hydrogen-ion concentration and pH; complex ion formation. Two lecture and six laboratory hours.

Chemistry 212. (Formerly Chemistry 23 and 24.) Quantitative Analysis. **Five hours.**
Prerequisite: Chemistry 211.
The principles and use of the analytical balance; care and use of analytical equipment; preparation of solutions, quantitative and qualitative; solubility product and laws of precipitation and solution; principles of stoichiometry; quantitative determinations of common metals and nonmetals by gravimetric, volumetric and electrolytic methods. Two lecture and six laboratory hours.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Chemistry 310. (Formerly Chemistry 26 and 27.) Organic Chemistry. **Five hours.**
Prerequisites: Chemistry 111 and 112.
Methane series and derivatives; ethylene series and derivatives; acetylene series and derivatives; polycyclic compounds; glucids, lipids, protids, and related compounds. Three lecture and six laboratory hours.

Chemistry 312. (Formerly Chemistry 28.) Advanced Organic Chemistry. **Five hours.**
Prerequisite: Chemistry 310.
Aromatic hydrocarbons, aldehydes; phenols, amines, diazonium compounds; dyes, drugs, etc.; theory of color, molecular rearrangements, tautomerism, etc. Three lecture and six laboratory hours.

Chemistry 313. (Formerly Chemistry 34.) Biochemistry. **Five hours.**
Prerequisite: Chemistry 310.
Qualitative tests for digested substances in vivo and in vitreo; chemical nature of muscle, blood and bone; enzyme action, urine analysis. Three lecture and four laboratory hours.

Chemistry 360. Fundamentals of General Chemistry. **Four hours.**

A consideration of the important topics from general chemistry. Includes: atoms and atomic theory, atomic structure, periodic classification, molecules, chemical bonding, gases, liquids and solids, ionization, acids and bases, equilibrium, energy and reaction rates, carbon chemistry, organic reactions, polymers, etc. Lecture three hours; laboratory and discussion two hours.

Chemistry 401. Chemistry for High School Teachers I. **Three hours.**

Prerequisite: One year of college chemistry

Basic concepts in inorganic and covalent chemistry. A minimum of descriptive information will be given as a generalized basis of support of the concepts. A survey of recent advances in chemistry will be included. Experiments emphasizing principles, methods, and techniques. Two hours lecture and two hours laboratory and discussion.

Chemistry 402. Chemistry for High School Teachers II. **Three hours.**

A continuation of Chemistry 401.

Chemistry 415. (Formerly Chemistry 41.) Physical Chemistry. **Five hours.**

Prerequisite: Chemistry 212.

The nature of the gaseous, liquid and solid states; thermo-chemistry and thermodynamics; solutions; colloids. Three lecture and four laboratory hours.

Chemistry 416. (Formerly Chemistry 42.) Physical Chemistry. **Five hours.**

Prerequisite: Chemistry 415.

Continuation of Chemistry 415. Chemical equilibria; phase rule; chemical kinetics; electrochemistry; ionic equilibria; atomic and molecular structure. Three lecture and four laboratory hours.

Chemistry 420. (Formerly Chemistry 320.) Instrumental Methods. **Four hours.**

Prerequisite: Chemistry 212, 310, and permission of instructor.

The principles and uses of optical and electrical instruments in analysis. Colorimetric, spectrophotometric, conductometric, potentiometric, polarographic, and chromatographic methods and determinations. Two lecture and four laboratory hours.

Chemistry 430. (Formerly Chemistry 49.) Problems in Chemistry. **Three hours.**

Prerequisite: Senior standing in chemistry and departmental approval.

Research in inorganic, organic, analytical, physical or biochemical problems Six laboratory hours.

Chemistry 440. Advanced Inorganic Chemistry. **Two hours.**

Prerequisite: Senior standing in Chemistry.

Modern concepts of atomic nuclei, atomic structure, and classification of the elements. Nature fo the chemical bond. Complex ions and coordination compounds. Reactions and substances in aqueous and nonaqueous media. Radioactive and nuclear chemistry. Two lecture hours.

Chemistry 450. Recent Advances in Chemistry. **Two hours.**

Prerequisite: Senior standing in Chemistry.

Lecture and discussion of recent advances in chemistry including references to domestic and foreign (German) literature. Two lectures or conferences weekly.

COMMERCE

CLASSIFICATION OF COMMERCE COURSES

For certification purposes commerce courses are classified as follows:

Accounting: 119, 120, 221, 325, 326, 327a, 327b, 328, 425, 427, 428, 441.

Secretarial Practice: 131, 151, 152, 215, 216, 253, 301, 302, 303.

General Business: 100, 124, 230, 231, 260, 309, 324, 339, 341, 343, 405, 406, 407, 408, 409, 410, 411, 427, 430, 431, 432, 433, 440, 443.

Methods and Materials: 461a, 461b, 561, 562.

Commerce courses counted as Social Science: Commerce 124, 230, 231, 260, 324, 405, 406, 407, 410, 411, 430, 431, 432, 433, 490, 500, 501, 510, 511.

COMMERCE

(Recommended curriculum for a major in the area of Commerce with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
Commerce 100	3	Commerce 119	3
*Commerce 151 or 152	2	Commerce 152 or 253	2
English 101	3	English 102	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Science 111	3	Science 112	3
Social Science 100	3	Social Science 101	3
Sociology 100	1	Sociology 101	1
	18		18

Second Year

Commerce 120	3	Commerce 216	3
**Commerce 215 or 216	3	Commerce 221	3
Commerce 253 or Elective	2	English 212	3
English 211	3	History 247	3
History 246	3	Military Science 202 (Men) or Elective (Women)	2
Military Science 201 (Men) or Elective (Women)	2	Psychology 211	3
	16		17

Third Year

Art 200	3	Commerce 301	3
Commerce 230	3	Commerce 302	3
Commerce 405	3	Education 316	2
Education 315	2	Education 384	2
Health 201	3	Music 271	3
Science 109 or Mathematics Elective	3	Science 110 or Mathematics Elective	3
		Elective	3
	17		19

Fourth Year

Commerce 461a	2	Commerce 309 or 408	3
Commerce 461b	2	Commerce Elective	6
Education 364	4	Elective	7
Education 463	10		
	18		16

*Students who have had typewriting previously should take Commerce 152.

**Students who have had shorthand previously should take Commerce 216.

MAJORS IN COMMERCE (Professional)

With emphasis in Accounting:

The following courses are required: 119, 120, 151, 152, 221, 230, 405, 461b, and six hours in Accounting.

With emphasis in Secretarial Practice:

The following courses are required: 119, 120, 151, 152, 215, 216, 230, 253, 302, 461a.

With emphasis in General Business:

The following courses are required: 100, 119, 120, 151, 152, 221, 230, 405, 461b.

MINORS IN COMMERCE (Professional)

With emphasis in Accounting:

The following courses are required: 119, 120, 151, 152, 221, 405, and three hours in Accounting.

With emphasis in Secretarial Practice:

The following courses are required: 119, 151, 152, 253, 215, 216, 302.

With emphasis in General Business:

The following courses are required: 119, 151, 152, 230, 231, 309, 405.

COMMERCE

(Recommended curriculum for a major in the area of Commerce without right of teaching certificate—General Business)

First Year

First Semester	Hours	Second Semester	Hours
Commerce 100	3	Commerce 119	3
English 101	3	English 102	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Science 111	3	Psychology 211	3
Social Science 100	3	Science 112	3
Sociology 100	1	Social Science 101	3
		Sociology 101	1
	16		19

Second Year

Commerce 120	3	Commerce 221	3
Commerce 230	3	Commerce 231	3
English 211	3	English 212	3
History 246	3	History 247	3
Military Science 201 (Men) or Elective (Women)	2	Military Science 202 (Men) or Elective (Women)	2
Science 109 or Mathematics Elective	3	Science 110 or Mathematics Elective	3
	17		17

Third Year

Art 200	3	Commerce 301	3
Commerce 309 or 408	3	Commerce 411	3
Commerce 324	3	Commerce 433	3
Commerce 410	3	Music 271	3
Commerce 491	3	Elective	4
Health 201	3		
	18		16

Fourth Year

Commerce 405	3	Commerce 406	3
Commerce 430	2	Commerce 431	2
Elective	12	Commerce 492	3
		Elective	8
	17		16

COMMERCE

(Recommended curriculum for a major in the area of Commerce without right of teaching certificate—Accounting)

First Year

First Semester	Hours
Commerce 119	3
English 101	3
Military Science 101 (Men) or Elective (Women)	2
Physical Education 115	1
Science 111	3
Social Science 100	3
Sociology 100	1
	16

Second Semester	Hours
Commerce 120	3
English 102	3
Mathematics 107	3
Military Science 102 (Men) or Elective (Women)	2
Physical Education 116	1
Science 112	3
Social Science 101	3
Sociology 101	1
	19

Second Year

Commerce 221	3
Commerce 230	3
English 211	3
History 246	3
Military Science 201 (Men) or Elective (Women)	2
Science 109 or Mathematics elective	3
	17

Commerce (Accounting Elective)	3
Commerce 231	3
Commerce Elective	3
History 247	3
English 212	3
Military Science 202 (Men) or Elective (Women)	2
	17

Third Year

Art 200	3
Commerce (Accounting Elective)	3
Commerce 301	3
Commerce 491	3
Commerce Elective	3
Health 201	3
	18

Commerce (Accounting Elective)	3
Commerce 309 or 408	3
Commerce 324	3
Commerce Elective	6
Music 271	3
	18

Fourth Year

Commerce (Accounting Elective)	3
Commerce 405	3
Commerce 410	3
Commerce 430	2
Commerce 440	3
Elective	3
	17

Commerce (Accounting Elective)	3
Commerce 406	3
Commerce 411	3
Commerce 431	2
Elective	6
	17

COMMERCE

LOWER DIVISION COURSES

Commerce 100. (Formerly Commerce 126 and Commerce 14a and 14b.) Business Mathematics. **Three hours.**

Rapid calculation in the fundamental processes; drawings and graphs; percentage; buying and selling merchandise; commercial discounts; recording purchases and sales; paying for goods; collecting bills; accounts; fractions; aliquot parts; decimal fractions; payrolls; interest; installment buying; bank discount; partial payments; profit and loss; commission and brokerage; marked price; taxes; insurance; stocks; bonds; civil service problems.

Commerce 119. (Formerly Commerce 10.) Elementary Accounting. **Three hours.**

The accounting equation; the balance sheet; the income statement; books of original entry; the theory of debit and credit; the general ledger; adjusting and closing entries; the accounting cycle explained; using a minimum of books; subsidiary ledgers and controlling accounts. Practice sets of books are worked out by the students.

Commerce 120. (Formerly Commerce 11.) Principles of Accounting. **Three hours.**

Prerequisite: Commerce 119.

Credit transactions; promissory notes; interest; discount; valuation accounts; accrued and deferred items; business papers; the periodic summary; the theory of partnership accounting. A partnership set of books is worked out by the students.

Commerce 124. (Formerly Commerce 17.) Economic History of Europe. **Three hours.**

The history of the development of agriculture, commerce, transportation, industry, labor legislation, socialism, social insurance, population and population trends, and finance in the principal European nations.

Commerce 131. (Formerly Commerce 5.) Penmanship. **One hour.**

Characteristics of good handwriting; illustrations of good handwriting; practice in developing desirable skills in executing legible handwriting; methods of teaching handwriting.

***Commerce 151.** (Formerly Commerce 15a.) Beginning Typewriting. **Two hours.**

Speed building technique; knowledge and care of the machine; personal and business letters; use of carbon paper; tabulating; term papers and notebooks.

Commerce 152. (Formerly Commerce 15b.) Intermediate Typewriting. **Two hours.**

Prerequisite; Commerce 151 or its equivalent.

Speed building; business papers; manuscripts; reports; mimeograph; transcribing machine.

***Commerce 215.** (Formerly Commerce 27a.) Beginning Shorthand. **Three hours.**

Prerequisite: Commerce 151 or its equivalent.

Principals of Gregg shorthand; dictation and transcription.

Commerce 216. (Formerly 27b and part of Commerce 27c.) Intermediate Shorthand. **Three hours.**

Continuation of Commerce 215.

*These courses are planned for students who have had no previous training in typewriting and shorthand.

Commerce 221. (Formerly Commerce 12.) Principles of Accounting. **Three hours.**

Prerequisite: Commerce 119, 120.

The voucher system; nature and characteristics of the corporation; corporation account and records; corporate earnings and surplus; corporation securities; accounting for manufacturing; departmental accounting; branch accounting; budgets; analysis and interpretation of financial statements; accounting for management.

Commerce 230. (Formerly Commerce 28 and 29.) Principles of Economics. **Three hours.**

Economic problems and economic progress; some basic economic concepts; economic decisions under laissez-faire, a mixed economy, and socialism; the scale and location of production; the organization of business; the rise of labor unions; social legislation of the 1930's; the nature of money; the supply of money; the demand for money; the control of money; demand and price; problems of the firm; problems of production: physical input and physical output; problems of production money costs and money returns; monoply and competition; the government and monopoly; distribution; wages; collective bargaining; rents; interest rates; profits; distribution of income in the United States; taxation.

Commerce 231. (Formerly Commerce 39.) National Income Analysis. **Three hours.**

Prerequisite: Commerce 230.

The national income; fluctuations in the real national income; the problem of index numbers; production and employment; production and prices; the cost of unemployment and the aim of full employment; some doubtful analyses and proposals; basic problems of employment; the encouragement of private expenditure for output; fiscal policy; the price level; inflation; the mechanics of international trade; aspects of international economics and issues of policy; economic systems; economic evolution.

Commerce 253. (Formerly Commerce 16a.) Advanced Typewriting. **Two hours.**

Prerequisite: Commerce 152 or its equivalent.

Advanced typing problems; use of office machines.

Commerce 260. (Formerly Commerce 26.) Consumer Economics. **Three hours.**

The role of consumers in economic life; consumers' choice; who guides consumers; freedom of choice; custom-made wants; choosing goods for display; fashion-made wants; imitative wants; producer-made wants; the profitable practice of fraud; price appeal; making it easy to buy; consumer education; planning expenditures; intelligent buying; co-operative buying; buying protection; buying shelter; buying investments; producer aids to consumers; standards of consumers; governmental aids to consumers.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Commerce 301. (Formerly Commerce 23.) Business English. **Three hours.**
The essential qualities of business writing; the sales letter; appeals to special classes; follow-up letters; inquiries, orders, and responses; credit letters; collection letters; adjustment letters; letters of application; business reports; style studies.

Commerce 302. (Formerly Commerce 27d.) Dictation and Transcription **Three hours.**
Prerequisite: Commerce 301.
Shorthand vocabulary building; dictation; transcription of shorthand notes on the typewriter.

Commerce 303. (Formerly Commerce 27e.) Secretarial Practice. **Three hours.**
Correlation of business correspondence; shorthand; typewriting; secretarial problems; office experience.

Commerce 309. (Formerly Commerce 32.) Business Organization. **Three hours.**
Prerequisite: Commerce 230.
Classes of business organization, their evolution, and the tests of efficiency; individual entrepreneur organization; partnership; corporation; joint-stock company; business trusts; simple agreements and price combinations; pools; combination trusts; community-of-interest organization; holding company; amalgamations; mergers; promotion; underwriting; stock exchanges; reorganizations and receiverships; legislation.

Commerce 312. Cases in Business Management. **Three hours.**
Prerequisite: Commerce 230.
Personnel management; business organization; policy and planning; wage payment; financial records and statements; purchases and sales; production control; and related problems.

Commerce 324. (Formerly Commerce 38.) Money and Banking. **Three hours.**
Prerequisite: Commerce 230.
Nature and functions of money; kinds of money; monetary systems; history of banking; functions of the bank; bank administration; the national banking system; deposits and depositors; the clearing house; domestic and foreign exchange; loans and discounts; bank supervision; savings banks; trust companies; foreign banking system; the federal reserve system.

Commerce 325. Principles of Accounting—Intermediate. **Three hours.**
Prerequisite: Commerce 221.
Accounting statements; the recording process; the periodic summary; cash and temporary investments; receivables; inventories; current liabilities; investments in stocks, bonds, funds and miscellaneous items.

Commerce 326. Principles of Accounting—Intermediate. **Three hours.**
Prerequisite: Commerce 325.
The acquisition, use, and retirement of plant and equipment; depreciation, depletion, and revaluations of plant and equipment; intangible assets and deferred charges; long-term liabilities; capital stock; surplus; statements from incomplete data; errors and their correction; statement analysis; statement of application of funds.

Commerce 327a. Cost Accounting. **Three hours.**
Prerequisite: Commerce 221.
The field of cost accounting; cost flow, cost elements, cost classification and cost system; the cost accounting cycle; the voucher system and the factory ledger; elements of cost; applied manufacturing expense; actual manufacturing expense; departmentalized manufacturing expense; process cost accounting; the costing of by-products and joint products. A job order cost set of books is worked by the students.

Commerce 327b. Specialized and Advanced Cost Accounting. **Three hours.**
Prerequisite: Commerce 327a.
Estimated cost systems; budgetary control with standard costs; cost control through cost reports; analysis and control of distribution costs; gross profit analysis; break-even analysis; profit-volume analysis; direct costing.

Commerce 328. Income Tax Accounting. **Three hours.**
Prerequisite: Commerce 221.
Income tax legislation—Federal and State; returns for individuals; gross income; basis and determination of gain or loss; capital gains and losses; dividends; deductions; withholding; partnerships; corporations. Students will have experience filling out income tax return forms.

Commerce 339. (Formerly Commerce 34.) Mathematics of Finance. **Three hours.**
Prerequisite: Mathematics 107.
Bank discount; true discount and present value; exact interest; logarithms; equation of accounts; domestic and foreign exchange; series annuities; bond valuation; business graphs; cumulative annuities; cumulative sinking funds; cumulative amortization plans; building and loan association calculations; industrial loans.

Commerce 341. (Formerly Commerce 35.) Salesmanship. **Three hours.**
The art of selling; the motive behind all buying; the customer's mental journey; attitudes of buyer and salesman; preparation of the selling talk; the pre-approach; the interview; arousing interest; creating desire; answering objections; meeting excuses; diplomacy of the close; types of customers.

Commerce 343. (Formerly Commerce 37.) Advertising. **Three hours.**
The specific purpose of advertising; developing the copy; slogans; trademarks; layouts; engraving; scheduling of advertisements in newspapers and magazines; direct mail advertising; outdoor advertising; dealer display advertising; economic aspects of advertising; federal laws affecting advertising.

Commerce 405. (Formerly Commerce 40.) Business Law. **Three hours.**
Law in general; kinds of law; persons; torts; contracts; personal property; real property.

Commerce 406. (Formerly Commerce 41a.) Business Law. **Three hours.**
Agency; partnership; corporations; bailments; sales of personal property; market practices.

Commerce 407. (Formerly Commerce 41b.) Business Law. **Three hours.**
Negotiable contract, suretyship and guaranty; privilege of debtors; labor relations.

Commerce 408. Corporation Finance. **Three hours.**
Prerequisite: Commerce 120.
The subject matter of this course covers the following matters pertaining to the private, profit-seeking corporate enterprise: (1) The acquisition of funds or property with which to operate; (2) sources of more permanent types of capital supply—namely, stocks and bonds; (3) sources of temporary capital needs and the essential practices of short-term credit institutions; (4) the management of the corporate net income; (5) alteration of the financial structure of the corporation on a voluntary or involuntary basis for the purpose of improving its financial standing.

Commerce 409. Principles of Risk and Insurance. **Three hours.**
This course is designed to assist the student to acquire a sufficient understanding of the principles and coverages of insurance to enable him intelligently to plan a satisfactory program of insurance for his personal needs or his business responsibilities. The following subjects are considered: The nature of risk and methods of risk assumption; fire insurance; transportation insurance; casualty insurance; life insurance; and fidelity and surety bonds.

Commerce 410. (Formerly Commerce 310) American Economic History. **Three hours.**

Historical development of commerce, industry, transportation, banking, labor problems, business organization, monetary problems, and agriculture in the United States from the settlement of the nation to the Civil War.

Commerce 411. (Formerly Commerce 311) American Economic History. **Three hours.**

Historical development of commerce, industry, transportation, banking, labor problems, business organization, monetary problems, and agriculture in the United States from the Civil War period to the present.

Commerce 425. (Formerly Commerce 46.) Accounting Problems. **Two hours.**

Prerequisite: Commerce 221.

This is an advanced course in accounting and the contents will be determined by the needs of the students registering for it.

Commerce 426. Payroll Accounting. **Three hours.**

Prerequisite: Commerce 221.

The ledger accounts; the weekly payroll; the semi-monthly payroll; monthly procedure, December payrolls; tax payments; the social security laws and regulations; the withholding provisions of the federal income tax law; the federal Fair Labor Standards Act; the laws and regulations relating to workmen's compensation insurance.

Commerce 427. Principles of Accounting—Advanced. **Three hours.**

Prerequisite: Commerce 326.

Partnerships—formation and operation; special partnership problems; joint ventures; installment sales; consignments; home office and branch relationships; corporate combination; consolidated balance sheet.

Commerce 428. Principles of Accounting—Advanced. **Three hours.**

Prerequisite: Commerce 427.

Special problems with consolidated balance sheets; consolidated income and surplus statements; foreign branches and subsidiaries; statement of affairs; receiverships; statement of realization and liquidation; estates; trusts; governmental units; actuarial science.

Commerce 430. (Formerly Commerce 42.) Public Finance and Taxation I. **Two hours.**

Distribution of government burdens; the general property tax; modified property tax; shifting and incidence of taxation; the income tax; death and gift taxes; taxes upon business; consumption taxes; motor vehicle taxes; the poll tax; social security taxes; taxes on natural resources; non-tax revenue.

Commerce 431. (Formerly Commerce 43.) Public Finance and Taxation II. **Two hours.**

A continuation of Commerce 430.

The power to tax; tax limitations; inter-governmental relations in taxation; public expenditures; state and federal aid; economy in expenditures; problems of public borrowing; fiscal administration.

Commerce 432. Alternative Economic Systems. **Three hours.**

Prerequisite: Commerce 230.

A somewhat detailed treatment of such topics as the following: Capitalism; Utopian forerunners; the Marxian theory of socialism and communism; modern socialism and communism; British socialism; the economy of the Soviet Union; Fascism as existed in Italy and Germany; the Consumers' Cooperative Movement.

Commerce 433. Economics of Labor. **Three hours.**
Prerequisite: Commerce 230.
The labor force; trade-union growth; structure and government of the local unit; structure and government of the national unit; structure and government of the federations; trade-union collective bargaining; management: dealing with organized labor; dealing with unorganized labor; government policy toward collective bargaining; government policy toward the individual worker; the operation of the labor market; wages; seasonal aspects of employment; cyclical aspects of employment; technological aspects of employment; a full employment economy; the distribution of income.

Commerce 440. Investments. **Three hours.**
Prerequisite: Commerce 221 and Commerce 408.
Characteristics of bonds; characteristics of stocks; securities markets; investment banking; sources of investment information; interpreting financial news; taxation of securities; investors of limited means; analysis of securities.

Commerce 441. (Formerly Commerce 47.) Auditing. **Three hours.**
Prerequisites: Commerce 325 and Commerce 326.
Preliminary arrangements for an audit; general procedure of an audit; the original records; the asset accounts; the liability accounts; operating accounts; the audit report. An auditing problem is worked to illustrate the principles discussed in class.

Commerce 443. (Formerly Commerce 45.) Marketing. **Three hours.**
Prerequisite: Commerce 230.
Consumers' buying; marketing functions and institutions; selling direct to consumer; earlier and simpler types of retail institutions; department stores; mail-order houses; chain stores; agricultural wholesale markets; middlemen of the city agricultural markets; classes and types of wholesaler; raw materials; cooperative marketing; speculation; prices and some price policies; brands and brand policies; ethical aspects of marketing.

Commerce 453. Office Appliances and Procedures. **Three hours.**
Prerequisite: Commerce 253.
Principles and practices of alphabetic, numeric, subject, and geographic filing; practice on the electric typewriter; use of the mimeoscope and mimeograph machines and preparation of stencils; the spirit method of reproduction of printed matter; operation and care of calculating machines.

Commerce 461a. Materials and Methods in Teaching Secretarial Subjects. **Two hours.**
Prerequisites: Commerce 216 or equivalent and Commerce 253 or 453.
Different methods, techniques and devices for teaching shorthand, typewriting and office practice.

Commerce 461b. Materials and Methods in Teaching Bookkeeping and General Business. **Two hours.**
Prerequisites: Commerce 221 or equivalent and two courses in General Business.
Different methods, materials and techniques used in the teaching of bookkeeping and general business subjects are emphasized.

Commerce 490. Workshop in Economic Education. **Three hours.**
Programs designed to create economic literacy; the organization of in-service education programs to promote economic literacy; methods of teaching economics in the elementary and high school; programs for adult education.

Commerce 491. Statistical Method. **Three hours.**
Prerequisite: Mathematics 107.
This course will consider such as the following: Frequency distributions; measures of location; measures of variation; probability; theoretical distributions; sampling distributions; problems of estimation; tests of hypotheses; problems of sampling; linear regression; correlation; index numbers; times series analysis.

Commerce 492. Business Cycles. **Three hours.**

Prerequisites: Commerce 230 and 231.

This course will deal with such as the following: Economic decision-making; growth, instability, inflation, and change; long-run growth; short-run fluctuations; personal spending and saving decisions; saving and spending in the business sector; government expenditure and tax patterns; the total flow of spending; prices, output, and employment; the cyclical pattern; problems and procedures in forecasting; dynamic policies for business; dynamic policies for individuals.

Commerce 493. Intermediate Economic Theory and Analysis. **Three hours.**

Prerequisite: Commerce 230 and 231.

A development of the leading theories and analyses of value and distribution. Problems and policies of price determination of both the firm and the industry and factor pricing are considered at the intermediate level of analysis.

Commerce 494. International Economics. **Three hours.**

Prerequisite: Commerce 230 and 231.

An introduction to the field of international trade, payments, and commercial policy. Topics included are: Theory of international trade, balance of international payments, foreign exchange, tariffs and other trade barriers, and current international economic problems and policies of the United States. The course concludes with a brief study of such international organizations and agreements as the International Monetary Fund, International Bank for Reconstruction and Development, other international financial institutions, and General Agreements on Tariffs and Trade.

Commerce 495. Advanced Money and Banking. **Three hours.**

Prerequisite: Commerce 324.

A somewhat detailed consideration of central banking; foreign exchange and financing foreign transactions; credit and monetary policy; fiscal policy; international monetary principles; capital markets and investment banking; trust and trust banking; agricultural banking.

GRADUATE DIVISION COURSES

Commerce 500. Problems in Consumer Economics. **Three hours.**

An advanced treatment of some of the problems in the area of consumer economics. The place of consumption in economic theory; the institutional background of consumer habits; sources of information on consumption; government regulation of consumer standards; intelligent consumer choices; savings as part of the family spending; investments, estate planning and wills; consumer credit; the consumer in taxes; etc.

Commerce 501. (Formerly Commerce 480.) Contemporary Economic Problems. **Three hours.**

This course will consider such goals of society as economic growth, economic stability, economic security, economic freedom, etc. The problems-approach method will be utilized. Student participation is expected and an attempt will be made to get the student to see how he is affected by these various problems. Some previous work in economics is desirable but not required. This is a general education course for those not majoring in Commerce or Economics.

Commerce 510. (Formerly Commerce 50.) History of Economic Thought. **Three hours.**

In this course a survey of economic thought and doctrine from the ancient period to the end of the classical period will be made.

Commerce 511. (Formerly Commerce 51.) Economic Thought Since the Austrian School. **Three hours.**

This is a continuation of Commerce 510. The chief economical doctrines since the Austrian school will be studied.

Commerce 512. Special Problems in Business Law. **Two hours.**

Commerce 513. Special Problems in Business Law. **Two hours.**

Commerce 514. Special Problems in Public Finance and Taxation. **Two hours.**

Commerce 515. Special Problems in Public Finance and Taxation. **Two hours.**

Commerce 550. Economics Seminar. **Two hours.**

A course designed for those students engaged in an intensive study and analysis of economic problems.

Commerce 551. Economics Seminar. **Two hours.**

A continuation of Commerce 550.

Commerce 561. Improvement of Instruction in Bookkeeping and General Business. **Two hours.**

Commerce 562. Improvement of Instruction in the Skill Subjects. **Two hours.**

ECONOMICS

LOWER DIVISION COURSES

Economics 124. Economic History of Europe. **Three hours.**
For course description see Commerce 124.

Economics 230. Principles of Economics. **Three hours.**
For course description see Commerce 230.

Economics 231. National Income Analysis. **Three hours.**
For course description see Commerce 231.

Economics 260. Consumer Economics. **Three hours.**
For course description see Commerce 260.

UPPER DIVISION COURSES

Economics 309. Business Organization. **Three hours.**
For course description see Commerce 309.

Economics 324. Money and Banking. **Three hours.**
For course description see Commerce 324.

Economics 410. American Economic History. **Three hours.**
For course description see Commerce 410.

Economics 411. American Economic History. **Three hours.**
For course description see Commerce 411.

Economics 432. Alternative Economic Systems. **Three hours.**
For course description see Commerce 432.

Economics 433. Economics of Labor. **Three hours.**
For course description see Commerce 433.

Economics 490. Workshop in Economic Education. **Three hours.**
For course description see Commerce 490.

GRADUATE DIVISION COURSES

Economics 500. Problems in Consumer Economics. **Three hours.**
For course description see Commerce 500.

Economics 501. Contemporary Economic Problems. **Three hours.**
For course description see Commerce 501.

Economics 510. History of Economic Thought. **Three hours.**
For course description see Commerce 510.

Economics 511. Economic Thought Since the Austrian School. **Three hours.**
For course description see Commerce 511.

EDUCATION

(Recommended Curriculum for a Major in Elementary Education with Right of Provisional Elementary Teaching Certificate)

First Year

First Semester	Hours	Second Semester	Hours
Art Elective	3	Art 260	3
Education 102	2	English 102	3
English 101	3	Military Science 102 (Men) or Elective (Women)	2
Military Science 101 (Men) or Elective (Women)	2	Physical Education 116	1
Physical Education 115	1	Science 110 or 112	3
Science 109 or 111	3	Social Science 101	3
Social Science 100	3	Sociology 101	1
Sociology 100	1		
	18		16

Second Year

English 211	3	English 212	3
History 246	3	History 247	3
Mathematics 201	3	Mathematics 202	3
Military Science 201 (Men) or Elective (Women)	2	Military Science 202 (Men) or Elective (Women)	2
Physical Education 220	2	Psychology 211	3
Science Elective	3	Science Elective	3
	16		17

Third Year

Education 315	2	Education 316	2
English 318	3	Education 354	2
Health 201	3	English 360	3
Music 271	3	Home Economics 310	2
Science 351	3	Music 260	3
Elective	4	Elective	4
	18		16

Fourth Year

Education 360	2	Education 463	8
Education 367	6	Sociology 331	3
Geography Elective	3	Elective	4
*Social Science Elective	3		
Elective	4		
	18		15

*Selected from Upper Division Courses in Economics, Geography, History, Political Science, Sociology.

EDUCATION

(Major in Elementary Education Arranged According to Subjects)

ART		6
260 Public School Art	3	
Elective: Art 200, Art 390, or Art 391	3	
EDUCATION		24
102 Introduction to Education	2	
315-316 Human Development and Psychology	4	
354 Reading in the Elementary School	2	
360 Teachers' Arithmetic	2	
367 Fundamentals of Elementary Education	6	
463 Supervised Student Teaching	8	
ENGLISH		18
101-102 Oral and Written Composition	6	
211 Survey of Literature I	3	
212 Survey of Literature II	3	
318 Literature of the United States	3	
360 Literature for Children	3	
HEALTH AND PHYSICAL EDUCATION		9
115 Physical Education	1	
116 Physical Education	1	
201 Personal and Community Health	3	
220 Plays and Games in the Elementary School	2	
Home Economics 310 Nutrition for Elementary Teachers	2	
MATHEMATICS		6
201 Understanding Arithmetic	3	
202 Understanding Elementary Mathematics	3	
MILITARY SCIENCE (MEN) OR ELECTIVE (WOMEN)		8
101 Introduction to Military Science	2	
102 Basic Military Training	2	
201 Second Year Basic Military Training	2	
202 Second Year Basic Military Training	2	
	8	
or		
Elective (Women)	8	
MUSIC		6
260 Public School Music	3	
Elective: Music 271, 371, or 372	3	
PSYCHOLOGY		3
211 General Psychology	3	

SCIENCE		15
109 Physical Science I or 111 Biological Science I	3	
110 Physical Science II or 112 Biological Science II	3	
Electives: Biology 219 or 433, Geology 301 or 305, Science 310	6	
Science 351 Science for Elementary Teachers	3	
SOCIAL SCIENCES		21
100-101 Contemporary Social Problems	6	
246-247 History of Western Civilization	6	
Geography Elective	3	
Sociology 331	3	
Elective: Economics, Geography, History, Political Science, Sociology	3	
SOCIOLOGY		2
100-101 Orientation	2	
ELECTIVES		16
Total		134

EDUCATION

LOWER DIVISION COURSES

Education 102. Introduction to Education. **Two hours.**

This course is designed to help the student analyze his own personal fitness for teaching, to acquaint him with the nature of the teaching profession, to aid him in choosing intelligently a teaching field, and to point out the significant role of education in the American way of life.

Topics: Importance of education in society; the profession of teaching, the teacher, and success in teaching; planning for teaching; foundation fields in teacher education; recent trends in education; the teacher, the child, and the community; various levels of teaching and education as a field for life work.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Education 301. (Formerly Education 30.) The Junior High School. **Two hours.**

Origin, development, and present status of the junior high school movement; the place of the junior high school in the public school system; the aims, purposes, and objectives of the junior high school; evaluation of types of programs; the junior high school plant; library, apparatus, and equipment of the junior high school.

Education 302. (Formerly Education 32.) Pupil Accounting. **Three hours.**

Relation of attendance to pupil progress; social and economic factors which affect attendance; school census; personnel records. In developing these topics a study will be made of personnel work in typical schools of Kentucky.

Education 303. Social Case Study. **Three hours.**

This course is designed for the training of attendance officers and covers a study of various approaches to understanding of the pupil with an educational setting as the basis of study. Some attention is given to social case work as it relates to the social and economic problems of the community.

Education 304. Vocational Home Economics Education. **Four hours.**

Prerequisite: Psychology 211.

The home economics teacher in the community; the needs of high school girls and the community; the high school teacher in the adult home making program; a study of the promotion and organization of classes. Observation and participation in adult classes.

Education 315. (Formerly Education 215.) Human Development and Psychology. **Two hours.**

Prerequisites: 58 semester hours including Psychology 211, Social Science, and Biological or Physical Science.

This course is designed to utilize a synthesis of the concepts and principles of human growth and development in a scientific process of understanding the causes of human behavior. An attempt is made to understand the relative and complex influences on child behavior which result from the physiological, affectional, and cultural areas of forces. It includes two hours per week devoted to selected readings, films, lectures, and discussions; and one hour per week for each student to observe the behavior of a selected child and to write an anecdotal record of the observation.

Group interpretation of the anecdotal record provides experiences for inferring the causes of individual behavior from the large body of general principles which govern human behavior.

Education 316. (Formerly Education 216.) Human Development and Psychology. **Two hours.**

Prerequisite: Education 315.

This course is a continuation of Education 315. The experience of observing and keeping an anecdotal record of a child's behavior is continued with increased complexity of structure and interpretation. Seminars are directed more toward the psychological forces which interact with each other and with the physical and cultural forces to shape human behavior: self-developmental processes and self-adjustment processes. Attempts are made to relate classroom procedures to such topics as the nature of learning, forces affecting learning, motivation, perception, intelligence, child centered approach to learning, and evaluation of pupil progress.

Education 354. (Formerly Education 164, 22, and 254.) Reading in the Elementary School. **Two hours.**

Objectives of reading in the elementary school; reading in the primary and intermediate grades; the place of oral reading in the grades; individual differences in reading; word difficulties; phonics; measuring reading instruction; motivation; materials of instruction.

Education 360. (Formerly Mathematics 26 and Education 260.) Teachers' Arithmetic. **Two hours.**

Developing an understanding of numbers; the place of arithmetic in the curriculum of the primary grades; increasing the child's understanding of numbers; teaching the fundamental combinations of addition and subtraction; elementary work in addition; elementary work in subtraction; teaching the fundamental combinations of multiplication and division; elementary work in multiplication; elementary work in division; Roman numerals; measures; fractions; the course of study; aims and objectives of arithmetic; assignments; examinations; the importance of accuracy and speed; value of drill; games; methods of teaching arithmetic; problem solving.

Education 364. (Formerly Education 36.) Fundamentals of Secondary School Methods. **Four or six hours.**

Prerequisite: One semester in residence at Eastern; standing of "C".

Graduated approach to responsible room teaching through experiences in study and discussion, organizing materials, directed observation, laboratory work, and gradual participation; development of the American secondary school; experiences in the study of pupil behavior; selection and organization of curriculum experiences; variation in techniques of teaching in different types of learning; learning objectives, interests, methods, and materials in special fields; experiences involving management and co-curricular duties; experiences in human relationship.

Education 367. (Formerly Education 26 and 267.) Fundamentals of Elementary Education. **Six hours.**

Prerequisite: One semester in residence at Eastern; standing of "C".

Graduated approach to responsible teaching in the elementary school through experiences in study and discussion, directed observation, organizing materials, laboratory work, and gradual participation; experiences in the study of child behavior; the course of study; selection and organization of curriculum experiences; teaching the various school subjects; various types of teaching and learning techniques and devices; experiences in playground and noon-hour supervision; participation in community activities; techniques of guidance, counseling, testing, and evaluating pupil progress.

Education 368. (Formerly Mathematics 31.) Elementary Statistical Methods. **Two hours.**

Methods of collecting data; methods of tabulation of data; uses and purposes of statistical methods; central tendencies; deviations; correlations; graphic methods.

Education 369. Audio-Visual Methods. **Three hours.**

A survey of various types of audio-visual aids; with instruction in the utilization of pictures, maps, graphs, slides, records, recorders, projectors, and other audio-visual materials.

Education 370. (Formerly Education 37.) Resource-Use Education. **Three hours.**

This course is designed to help teachers understand the dynamic role of education in developing resources—natural, human, and cultural—and to aid them in making better use of resources in teaching. Topics: Meaning and objectives of resourse-use education; analysis of state, regional, and national resources; selecting and organizing resource materials for effective teaching purposes; use of field trips, visual aids, readings, and other activities; sources of materials from state, regional, and national agencies; types of aids available to teachers; state, regional, and national planning for the conservation and wise use of resources; some principles of resource-use education.

Education 384. (Formerly Education 47 and 383.) Organization and Administration of the School System. **Two hours.**

Prerequisite: Junior standing.

This course deals with the total school system and is designed to give the student a clear picture of the public school system as a whole. Among the topics treated are the study of and participation in experiences leading to an understanding of the principles and practices in the organization and administration of the total school system; study of the functions of education in a democracy; the scope and functions of school organization and control; problems of prospective teachers; important responsibilities and activities related to instruction; membership in the teaching profession, and other problems connected with the public school system in general.

Education 416. Child Development Laboratory I. **Three hours.**

This course involves the direct study of children. Each participant selects a child for study, writes a description of the child, and gathers significant data about the child from all available sources of information. In regular periodic meetings with other participants, the materials are presented for criticism and analysis. Emphasis is placed upon skill in observation, objectivity in recording, and realism in analysis of causes of behavior. The course, for in-service teachers, runs for the entire school year, and each participant must complete his analysis in a structured summary.

Education 417. Child Development Laboratory II. **Three hours.**

This course is a continuation of Education 416, but wtih added emphasis on procedures for analysis of the dynamics of behavior. A structured framework of six broad areas of factors and processes in child development is employed. The records must be summarized in terms of developmental tasks within these areas.

Education 418. Child Development Laboratory III. **Three hours.**

This course is a continuation of Education 417.

Education 421. (Formerly Education 421a and 421b.) Educational Measurement. **Three hours.**

Survey of the development of mental and educational tests; the nature and classification of standard tests; the construction of tests; the importance of accuracy in measurement, reliability, validity; extent to which standardized measures should replace traditional types of measurement; methods of improving the ordinary examination; the criteria for the selection of standardized tests; statistical analysis of the test data, use of the results for comparison, classification, promotion, guidance, prognosis, diagnosis; and measuring the efficiency of the teacher and of schools.

Education 441. (Formerly Education 43.) The Elementary School Curriculum **Three hours.**

Objectives of education in light of society; function of the school; function of the curriculum; the curriculum as related to the objectives of education and to society; criteria for evaluating curricula; need and procedure for curriculum construction and revision.

Education 463. (Formerly Education 46.) Supervised Student Teaching. **Eight or ten hours.**

Prerequisite: One semester in residence at Eastern; standing of "C".

Observation, participation, and responsible room teaching; child study with special case study problems and remedial work; development of skills and techniques desirable for good school procedure; the location, collection, and organization of materials for instruction; study of community occupations, resources, social and economic problems; experience in meeting parents, visiting homes, participation in social programs of school and community; experience in directing various kinds of activities including routine school duties, field trips, and extra-curricular program; acquaintance with the school organization, school policies, system of records and the like; learning how to maintain desirable pupil-teacher relationship.

Education 466. (Formerly Home Economics 46.) Advanced Methods in Home Economics. **Three hours.**

Prerequisite: Education 304 or taken concurrently.

The student has an opportunity to prepare teaching materials, visit high schools and lunchrooms, keep records, work with Future Homemakers of America, and plan assembly programs.

Education 490. Moral-Spiritual Values in Education. **Three hours.**

The purpose of this course is to provide opportunities for teachers to focus their attention on certain moral and spiritual values within the framework of the existing curriculums.

GRADUATE DIVISION COURSES

Education 500. Introduction to Educational Administration. **Three hours.**

This course is designed as the first course to be taken by those who plan to complete all or a part of the leadership curricula. It deals with theories of administration and the practice of these theories at the system level and community level; it deals with the functions of those who work with learners, with teachers, with plant, with curriculum, and with other aspects of a functioning educational program at the local, state, or national level. The studies of administrative functions of school personnel will be examined in this course. Research in the administrational field by CPEA will make up a large part of the materials for the course.

Education 501. (Formerly Education 50a.) School Administration I. **Two hours.**

Federal relations to education; the state as a fundamental school unit; general school law and court decisions relating to public education; powers and duties of state school officials; work of the state department of education; local units of school control; power and duties of local school officials; administration of adult education and other types of special education; the administration of teacher personnel; public-school relations; closer school-community relationships; principles of good school-community relationships; education and the community; non-government controls of education; school insurance administration; the non-public or protest school; community administrative structure; principles of operation.

Education 502. (Formerly Education 50b.) School Administration II. **Two hours.**

Administration of pupil accounting; the school census; attendance; records and reports; organization and administration of the supervisory program; curriculum administration; selection of school sites; building plans and designs; school building management; operation and maintenance of the school plant; selection and use of equipment and supplies; organization of school libraries; auxiliary agencies; administration of health education; school consolidation and transportation; office administration; classification and progress of pupils; administration of pupil guidance; appraisal; interpretation; advanced education; major steps in building a school.

Education 503. (Formerly Education 50c.) School Administration III. **Two hours.**

The background of school finance; the school finance situation; the control of public education; tests of wholesomeness of fiscal policy; economic effects of school finance; cost and character of education; a conceptual basis for local financial administration; budgeting school funds; auditing school accounts; school revenue-sources and management; financial accounting; cost analysis; financial statements and reports; salaries of school employees; school supply management; procedures; qualities of good teaching; procedures of evaluating and improving classroom teaching; methods of making the school a more effective agency; management of school property; financing capital outlay; the American state and central support of public education; the foundation program; designing programs for marshaling effective support for an adequate foundation program-equalization; designing programs for marshaling effective support for vigorous local autonomy; progress and compromise; designing fiscal programs to establish the desired balance of controls between central and local agencies; measures of educational need for use in state programs; measures of relative ability for use in evaluating fiscal policy and in designing state programs; state educational endowment; the state and taxation; federal financing of education.

Education 504a. Problems in Educational Administration. **One hour.**

This course is designed for advanced graduate students who desire to work on special problems according to their individual needs. Students enrolling for this course should have the approval of the Head of the Department of Education and the Dean of the College.

Education 504b. Problems in Educational Administration. **One hour.**
A continuation of Education 504a.

Education 504c. Problems in Educational Administration. **One hour.**
A continuation of Education 504b.

Education 505. Kentucky School Law. **Two hours.**
This course will be primarily concerned with developing knowledge and understanding of: The principles of school law, constitutional provisions relating to public schools in Kentucky, school districts, school buildings and other school property, school officers, the State Department of Education, school support, conduct of schools, compulsory attendance, school faculties and other employees, retirement, tenure, vocational education, rehabilitation education, higher education, and court interpretation of the laws.

Education 506. Problems in Public School Finance. **Two hours.**
Prerequisite: Education 503.
This course is designed primarily for in-service students. A few selected problems will be studied rather carefully.

Education 510. (Formerly Education 51a and 51c.) Curriculum Problems and the Improvement of Instruction in Elementary Schools. **Three hours.**
Meaning and function of education; underlying principles developed for curriculum use and curriculum revision; interpretation of the learning experiences (school subjects in light of the meaning and function of education); study of concrete materials and classroom procedure with a representative range of practical problems in various subject areas; types of organization used in modern instruction; how children learn; various educational agencies in the community; how the school may be made a real community center; laboratory study and field trips.

Education 511. General Supervision. **Three hours.**
Objectives and problems of school supervision; techniques and functions of supervision; current practices in supervision; problems of organizing instruction to meet increasing responsibilities of public schools; analyzing teachers' difficulties; planning supervisory programs; selecting and organizing instructional materials; locating and using community resources and other aids available to public school teachers; techniques for developing desirable professional relations; problems of in-service education for teachers. Each member of the group will plan a supervisory program for a local school system in Kentucky as a special project in the course.

Education 512. Curriculum Development. **Two hours.**
This course is designed for graduate students who desire to make a critical study of the principles and techniques of curriculum making in public schools. Recent curriculum developments are evaluated and effective curriculum programs are considered. Some attention is given to the recent professional literature on curriculum development and trends.

Education 513. Principles of Guidance. **Two hours.**
This course includes selection, evaluation, and usage of group guidance methods; emphasis will be placed upon appropriate methods and materials for specific situations in group guidance programs. This course will also deal with educational and occupational information. It will include a survey of pertinent educational and occupational material with emphasis being placed upon intensive and extensive use of these as they apply to secondary school students.

Education 515. (Formerly Education 52.) Human Development and the Psychology of Learning. **Three hours.**
Developmental factors and individual differences; motives, goals, and purposes; arranging the learning situation; problem solving and creative expressions; acquiring skill and information; transfer; the curriculum; social setting for learning; evaluation of development and learning.

Education 516. Measurement and Guidance. **Three hours.**

An intensive study of measurement and other techniques for guidance and counseling in schools, including counseling and guidance principles and techniques. Some attention is given to statistical methods. Recent developments in guidance and counseling are evaluated and effective programs are given special consideration. Fee, $2.00.

Education 517. Individual Intelligence Testing. **Two hours.**

Designed to build proficiency in administering and understanding individual intelligence tests. Includes study of purposes of individual intelligence tests, their make-up, and directions for administering. Each student is required to administer test to several children or adolescents and to interpret test findings.

Education 518. Practicum in Counseling. **Two hours.**

This course is designed to build proficiency in counseling and interviewing. Includes brief review of modern counseling and interviewing techniques and their purpose in guidance; major emphasis is given to compilation and study of case histories of records, and actual interviewing and counseling with pupils, teachers, parents, supervisors, and administrators.

Education 519. Clinical Study of Exceptional Children. **Two hours.**

Methods are studied for diagnosing and teaching brilliant, retarded, physically handicapped, and emotionally maladjusted children.

Education 521. (Formerly Education 53.) Audio-visual Education. **Three hours.**

Meaning and value of audio-visual aids; fundamental principles developed for the selection, organization, and utilization of audio-visual materials; detailed study of various sources of visual aids; formation of standards for evaluation; laboratory study and field trips. Special attention is given to problems of organizing these materials in a school.

Education 531. (Formerly Education 55a.) History of Education. **Two hours.**

Brief survey of the history of education in ancient and medieval times with special reference to the contribution of Greece, Rome, and Christianity to modern education; educational influences of the Renaissance and the Protestant Reformation; the role of the doctrine of formal discipline; educational influence of Comenius, Rousseau, Pestalozzi, Froebel, and Herbart.

Education 532. (Formerly Education 55b.) History of Education in the United States. **Two hours.**

Rise and development of public education in the United States with special emphasis upon the work of Horace Mann; sociological, psychological, and scientific movements in education; desirable educational reorganizations; the influence of John Dewey; brief study of the development of public education in Kentucky.

Education 536. (Formerly Education 55c.) Philosophy of Education. **Two hours.**

Meaning and scope of philosophy and education; contrasting philosophies and conceptions of education; the nature and meaning of education in relation to the individual and the social order; education and democracy; social progress and social control; the nature of thinking; educational aims and values; subject matter and methodology in relation to the educative process; character education; evaluation and interpretation of present-day issues and problems in education.

Education 537. (Formerly Education 55d.) Comparative Education. **Two hours.**

Examination, comparison, and discussion of the background of conditions and theories which have resulted in the present practices in education in the world today with special emphasis upon the school systems and practices in Germany, France, England, Russia, Denmark, Sweden, China, Australia, Canada, Mexico, and representative South American countries. Comparisons will be made between education in America and in foreign countries.

Education 538. Modern Trends in Educational Philosophy. **Two hours.**

Not open to students who have not had Education 536 or its equivalent.

A study of alternative philosophies and their implications for current educational theory and practice.

Education 542. (Formerly Education 56.) Applied Statistical Methods. **Two hours.**

Prerequisite: Education 368.

Measurements in psychology and education; frequency distributions; measures of central tendency; measures of variability; applications of the normal distribution curve; reliability and significance of statistics; testing hypothesis; prediction and errors of prediction: correlation methods; reliability and validity of tests.

Education 550. (Formerly Education 57 and 57r.) Educational Sociology. **Three hours.**

Relation of sociology to education; sociological problems and their educational implications; social groups and institutions in relation to education; social forces and their significance in society; the sociological determination of educational objectives; social elements and values in the curriculum; democracy in school administration and supervision; essential elements of a socialized educational program.

Education 562. The Role of the Principal. **Three hours.**

Nature of demands made on school principals; organization of duties for effective management; planning the year's work; responsibilities for schedule-making; guidance functions of the principal; projecting a guidance organization; office duties of the principal; duties pertaining to records and reports; organizing the program of student activities; administering the program of student activities; duties pertaining to the need of youth; adjusting school to pupil needs; evaluating the progress of pupils; the administration of teacher personnel; duties pertaining to supervision; educational diagnosis and remedial treatment; the improvement of curriculum materials; the use of tests in instruction; the school library; business duties of principals; administering the school plant; the principal in the community; and the future of the school principalship.

Education 563. (Formerly Education 58b and 58c.) Improvement of Instruction in the Secondary School. **Three hours.**

Aims of the public secondary schools; plans for evaluating curriculum procedures; qualities of good teaching; procedures of evaluating and improving classroom teaching; methods of making the school a more effective agency.

Education 565. Investigations in Reading. **Two hours.**

This course is designed for graduate students who desire to make a critical study of the investigative and theoretical literatures dealing with the teaching of reading in the elementary school.

Education 566. Investigations in Mathematics. **Two hours.**

This course is designed for graduate students who desire to make a critical study of the investigative and theoretical literatures dealing with the teaching of mathematics in the elementary school.

Education 567. Investigations in Social Studies. **Two hours.**

This course is designed for graduate students who desire to make a critical study of the investigative and theoretical literatures dealing with the teaching of social studies in the elementary school.

Education 569. (Formerly Education 59d.) Research in Education. **Two hours.**

Functions of educational research; types of research and the principal techniques of each type; bibliography; discovering educational problems for study; organization and interpretation of data; preparing and evaluating research reports; class discussions and reading reports.

Required of all graduate students who do not prepare a thesis.

Education 570. Seminar. **One hour.**

Education 571. Seminar. **One hour.**

Education 572. Seminar. **One hour.**

The Seminar is designed for students who are preparing a thesis in partial fulfillment of the requirements for the degree of Master of Arts in Education. If the thesis requirement is waived, Education 569, Research in Education, is required.

Education 580. Organization and Supervision of Student Teaching. **Three hours.**

Prerequisite: Teaching experience.

A course designed for teachers preparing to become supervising teachers in the elementary and secondary schools. Emphasis will be placed upon supervision of student teachers, supervision of instruction, and improvement of instruction. The course gives emphasis to the responsibility of the supervising teacher to administrators, to student teachers, and to the boys and girls. Intensive study will be made in the areas of teaching, classroom management, planning instruction, conferences, ethics, and evaluation of the student teaching program.

ENGLISH

(English Language and Literature, Drama, Speech)
FIRST MAJOR IN ENGLISH (with right of teaching certificate):

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Foreign Language	3	Foreign Language	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
*Science 111	3	*Science 112	3
Social Science 100	3	Social Science 101	3
Sociology 100	1	**Speech 131 or 231	3
		Sociology 101	1
	16		19

Second Year

English 211	3	English 212	3
English 265	3	Foreign Language	3
Foreign Language	3	History 247	3
History 246	3	Military Science 202 (Men or Elective (Women)	2
Military Science 201 (Men) or Elective (Women)	2	Psychology 211	3
Science 109	3	Science 110	3
	17		17

Third Year

Education 315	2	Art 200	3
Education 384	2	Education 316	2
English 301	2	English 302	2
English Elective	3	English Elective	4
Health 201	3	Elective	6
Elective	5		
	17		17

Fourth Year

Education 364	6	English 441	3
Education 463	10	History 340, 341, or 342	3
		Music 271	3
		Elective	7
	16		16

The student who wishes to major in English without right of certification to teach may follow the curriculum for the first major given above, but substitute other courses for those in education.

*Three hours of mathematics or three hours in other natural science may be taken instead of one of the science courses listed in the English curriculum.

**If Speech 231 is elected, it must be postponed until the second year or later. Speech 131 should be taken in the first year.

For the electives in English, students should take one course in group 4 and one course from each of the other groups to make a minimum total of 32 hours including English 101 and 102.

1. English 201, 216, one course in Drama, one course in Speech
2. English 311, 312, 319, 321, 325
3. English 314, 317, 318, 322
4. English 421, 423, 424, 425

AREA IN ENGLISH:

A student may take an area in English by earning a total of at least 54 semester hours including English 101 and 102. In general, the student may follow the curriculum for a first major in English, adding at least 22 additional hours and selecting them in such a way that the 48 hours exclusive of freshman English will be distributed as follows: 30 semester hours in Grammar, Composition, and Literature; and 18 semester hours distributed among Speech, Drama, and Journalism. Any extra hours should be taken in the field of Literature.

SECOND MAJOR IN ENGLISH:

A student with a first major in some other department may take the following courses for a second major in English: English 101, 102, 211, 212, 265, 301, 302, 441, Speech 131 or Speech 231, and one course each from any three of the following groups to make a minimum of 30 hours including English 101 and 102:

1. English 201, 319, 325, Speech 205, Drama 262 or 363
2. English 311, 312, 314, 317
3. English 318, 321, 322
4. English 421, 423, 424, 425

Students with a second major in English are urged to meet the requirements in foreign language for the first major if it is possible to do so.

MINORS IN ENGLISH, DRAMA, SPEECH:

I. English—English 101, 102, 211, 212, 265, 301, Speech 131 or 231, and four additional hours in literature.

II. Drama—Drama 222, 242, 262, 363, Speech 131, and elect six hours of Drama.

III. Speech—Speech 131, 230, 231, 341, and elect six hours of Speech and three hours of Drama.

ENGLISH

LOWER DIVISION COURSES

English 101. (Formerly English 10a, 10b.) Spoken and Written Communication I. **Three hours.**

Study or review of the mechanics of expression, such as grammar, punctuation, spelling, and sentence structure; word study and good usage, including the use of the dictionary; practice in letter writing and in organizing and presenting both in writing and speaking (especially in brief compositions and expository speeches) material from the student's experience and observation and from his reading and study; some practice in more effective reading and listening.

English 102. (Formerly English 10b, 10c.) Spoken and Written Communication II. **Three hours.**

Prerequisite: English 101.

Continued practice in organizing and presenting material as written and spoken composition. Longer compositions; at least one longish investigative paper which employs the elementary principles of research; paragraph structure and development; emphasis on reading and analysis; acceptable usage in speaking and writing.

English 200. Journalism and Society. **Two hours.**

An introduction to mass communications; a study of newspapers, magazines, radio, television, and business and industrial publications; the history of mass communications; social, political, and economic roles in modern society; the industries and professions related to mass communications; reading in current periodicals and journalistic literature. (May be taken by freshmen by special permission of the instructor.)

English 201. Journalism, Newswriting. **Two hours.**

Prerequisites: English 101 and 102.

Practice in news gathering and writing; background study of the nature of news; procedure in reporting; communication through newspapers and other media; student writing for publication in the campus newspaper and in local newspapers. (Students are encouraged, but not required, to join the Progress staff.)

English 202. Journalism, Feature Writing. **Two hours.**

Prerequisites: English 101 and 102. (Desirable for students to take English 201 before English 202)

Practice in writing feature stories for newspapers and magazines; background study of professionally-written features; writing procedure; free-lance markets; writing designed for publication in newspapers and magazines.

English 211. (Formerly English 218, 216.) Survey of Literature I. **Three hours.**

Prerequisite: English 101 and 102.

Selections from the great masterpieces of Greek and Latin poetry, drama, history, and philosophy; selections from Oriental, Hebrew, and Mohammedan literature; selections from medieval myth, saga, and romance; selections from the continental literature of the Renaissance; selections from modern French, German, and Russian literature; individual reading of some complete masterpieces.

English 212. (Formerly English 219, 21c.) Survey of Literature II. **Three hours.**

Prerequisite: English 101 and 102.

Anglo-Saxon poetry; romances of chivalry; ballads; Chaucer; Shakespeare and Elizabethan drama; Renaissance English lyrics; Milton; prose from Bacon to Pepys; prose of the New Classicism; poetry of the New Classicism; the Romantic poets; English prose of the nineteenth century; American essays and addresses; Victorian poets; nineteenth century American poets; the short story; the new English drama.

English 216. (Formerly English 22.) The Short Story. **Two hours.**

Prerequisite: English 101 and 102 and one course in literature.

Technique of the short story; development of the short story as a literary type; romanticism and realism in stories; the short story in America; short stories for the high school; the writing of a story or a paper.

English 265. (Formerly English 26.) Grammar for Teachers. **Three hours.**

Prerequisite: English 101 and 102.

Parts of speech, syntax, and sentence analysis; history of teaching of grammar; methods of testing and measuring progress; relationships to all verbal communication.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

English 301. (Formerly English 30a.) Advanced Composition I. **Two hours.**

Required of juniors and seniors who have less than six hours of freshman English.

Required written reports, precis, recommendations; informational essays or feature articles, news stories, editorials; book reviews; critical essays; research articles. Students are encouraged to write with a view to submitting their articles to suitable periodicals for publication.

English 302. (Formerly English 30b.) Advanced Composition II. **Two hours.**
Prerequisite: English 301.

Practice in writing short stories, one-act dramas, radio and motion picture dramas, feature articles, critical essays, familiar essays. Students are encouraged to write with a view to submitting the writing to suitable agencies for publication.

English 303. Journalism Practice I. **One hour.**
Prerequisites: English 101 and 102.

Supervised laboratory work in the medium of newspaper communication; designed to give the student practical experience on the staff of a weekly newspaper; study of techniques; analysis of problems; at least two meetings each week for evaluation of work.

English 304. Journalism Practice II. **One hour.**
A continuation of English 303.

English 311. (Formerly English 32a and 32b.) Shakespeare. **Three hours.**
Prerequisite: English 101 and 102, and two courses in literature.

Elizabethan England as a background for the Shakespearian drama; early Elizabethan drama; Elizabethan theories of comedy and tragedy; development of Shakespeare's dramatic genius; problems of authorship, chronology and texts; the great comedies, histories, and tragedies; rapid reading of many plays and more careful study of a few of the great plays.

English 312. (Formerly English 33.) Modern Drama. **Three hours.**
Prerequisite: English 101 and 102, and two courses in literature.

Ibsen and his influence; the free theater and the new drama on the continent; naturalism and expressionism; the independent theater and the dramatic revival in England; the Abbey Theater and the Irish Renaissance; American imitators of the European drama; the little theater movement; Eugene O'Neill and the repertory theater; experimental drama.

English 314. (Formerly English 34a and 34b.) The Novel. **Three hours.**
Prerequisite: English 101 and 102, and two courses in literature.

History, development, and survey of the English novel and the American novel from their beginnings to 1920; content and literary characteristics of the different types of novels; foreign influences; extensive reading and discussion of the different types of novels.

English 317. (Formerly English 35a and 35b.) Contemporary Literature. **Three hours.**
Prerequisite: English 101 and 102, and two courses in literature.

Creative writing of the last ten years and its roots in the immediate past; new influences, new names, new trends in fiction; consideration of the literature of escape, of self-revelation, and of social consciousness; new poets and poetic theories and techniques exemplified in current poetry; new dramatics and current dramatic theories and techniques; radio, motion picture, and stage drama; evaluation of book reviews and commercial organizations designed to influence book selection; extensive rather than intensive reading (not confined to any one nation).

English 318. (Formerly English 36.) Literature of the United States. **Three hours.**
Prerequisite: English 101 and 102, and two courses in literature.

Persistence of pioneer attitude in American literature; the case for religious, political, personal, and economic freedom; from rugged individualism toward social concern; "woods longing" and the open road; quest for the ideal; interracial accommodation and conflict; progress toward realism; men and nature; men and machines; men and earth; literary evaluation; teaching techniques; writers as human beings; topics inherent in selected individual writings from colonial times to the present.

English 319. (Formerly English 461 and 40.) Kentucky Literature. **Three hours.**

Prerequisite: English 101 and 102, and two courses in literature.

The economic, political, social, and religious background of the early Kentuckians as expressed in their writings; ante-bellum literature; the influence of the War Between the States; the rise of local color fiction; the revival of poetry; present-day writers and tendencies; ballads; seventeenth century survivals in the native idiom; opportunity for students to become familiar with the John Wilson Townsend Collection.

English 321. (Formerly English 37a.) Poetry and Prose of the Romantic Period. **Three hours.**

Prerequisite: English 101 and 102, and two courses in literature.

In poetry the rise, development, and culmination of Romanticism; the impact of German metaphysics; the development of poetic form in Wordsworth and Coleridge; the return to the past in Scott and Southey; revolt and satire in Byron; Shelley and democratic idealism; Keats and esthetics. In prose the development of the essay as a medium of self-expression, literary criticism, and social ideals, as exemplified in the writings of Lamb, Coleridge, Hazlitt, De Quincey, and Landor.

English 322. (Formerly English 37b.) Poetry and Prose of the Victorian Period. **Three hours.**

Prerequisite: English 101 and 102, and two courses in literature.

Social ideals, political principles, religious conceptions, scientific theories, and cultural changes as mirrored in the non-fictional prose of such Victorian writers as Macaulay, Carlyle, Newman, Mill, Spencer, Arnold, Huxley, Ruskin, Stevenson, and Pater. The poetic cycle from Tennyson to Housman, reflecting the religious faith and doubt, social reform and unrest, estheticism, and skepticism of the period.

English 325. Literature of the Old Testament. **Three hours.**

Prerequisite: English 101 and 102, and two courses in literature.

Reading of the entire Testament: (1) the books of history and law, from Genesis through Nehemiah; (2) the prophets, in chronological order, studying the insights of each in relation to his times; (3) the remaining third part of the Canon—its wisdom literature, dramatic poetry, lyric poetry, and masterful short narrative. A study of truth and beauty in the most significant of national literatures.

English 360. (Formerly English 24 and 260.) Literature for Children. **Three hours.**

Prerequisites: English 101, 102, 211, and 212.

Brief survey of the history of children's literature. Criteria for judging the various types of literature for the elementary school, with extensive reading of poetry, fiction, myth and folklore, biography, and informational books for the grades. Format and illustration as determining factors in children's choice of books.

English 402. Creative Writing. **Three hours.**

A seminar course in writing open to those students who have had English 302 or who have a desire to have their manuscripts criticized before being submitted for publication. Fiction, drama, poetry, biography, or the informal essay accepted.

English 421. (Formerly English 42.) Renaissance and Elizabethan Literature. **Three hours.**

Prerequisite: English 101 and 102, and two courses in literature.

Spirit of the Renaissance; influence of Italian and other continental literatures; early English humanists; Elizabethan enthusiasm; the Elizabethan language; new literary influences; chief literary forms; Spenser and Elizabethan poetry; the great sonneteers; Sidney and criticism; Bacon and scientific writing; the Shakespearian poetry; Ben Jonson, Drayton, and Daniel; prose fiction; Elizabethan drama.

English 423. (Formerly English 43.) Milton and the Puritan Period. **Three hours.**

Prerequisite: English 101 and 102, and two courses in literature.

The Puritan background; life of Milton as it affected his writings; his earlier poetry; development of his genius; the great epic Paradise Lost and its interpretation; Paradise Regained and Samson Agonistes; other writers of the period and their writings.

English 424. (Formerly English 44.) Chaucer and Medieval Story. **Three hours.**

Prerequisite: English 101 and 102, and two courses in literature.

Study of the various types of medieval story—the folk-epic, the beast tale, the metrical romance, the fabliau, the saint's legend, and the ballad—and of the social and moral ideals which they reveal.

English 425. (Formerly English 45.) The Age of Classicism. **Three hours.**

Prerequisite: English 101 and 102, and two courses in literature.

Social backgrounds of classicism; Restoration drama as a reaction against Puritanism; Dryden and the rise of the critical spirit; Pope and the Augustans; the literary dictatorship of Dr. Johnson; new tendencies in the pre-romantic writers.

English 441. (Formerly English 47.) History of the English Language. **Three hours.**

Prerequisite: Two years of work in English toward a major or minor in English.

The family of languages; the Old English period; the Middle English period; modern English; the foreign and native elements in English; history of English vowel sounds; mutation and gradation; the consonants; English inflections; English accent; collateral readings in the less technical works on the English language.

GRADUATE DIVISION COURSES

English 501. Advanced Composition III. **Three hours.**

For graduate students who have not had English 301.

Much writing of many kinds and forms, principally expository or utilitarian in character rather than belles-lettres; study of the principles of such writing and of well-written examples of the types being written; as much attention as is required to matters of style and correctness, it being imperative that graduate students possess or attain a reasonable mastery of these.

English 511. The Development of English Drama to 1642. **Three hours.**

Medieval liturgical drama; early miracle plays and the guild cycles; morality plays and interludes; early Tudor Renaissance drama; the development of the theater; companies of actors; Marlowe, Lyly, Greene, Peale, and Nashe; Edward De Vere and the Shakespearian drama; Ben Johnson and the Stuart dramatists.

English 515. (Formerly English 52.) English Criticism. **Three hours.**

A study of the development of English criticism from its beginnings to the end of the nineteenth century. Foreign influences in English criticism; changing conceptions of the criteria of criticism; the great critics and their works.

English 565. (Formerly English 50 and 51.) Problems in High School English. **Three hours.**

A course for graduate students who wish to work on individual problems under the direction of an instructor. Much reading and research are done. Various problems are analyzed and discussed. Many references are used. Special papers are prepared.

DRAMA

A student may complete a minor in Drama by taking the following courses: Drama 222, 242, 262, 363, Speech 131, and six semester hours of Drama electives.

Drama 222. Introduction to Theater. **Three hours.**
Course designed to study important trends, production methods, and personalities in theater from the Greek theater up to Ibsen.

Drama 242. Stagecraft and Scenic Design. **Three hours.**
Theory and practice in the technical aspects of design, construction, painting, make-up, and lighting of scenery, with some consideration of the history and development of the art of stagecraft. Open to all students. One lecture period and three laboratory periods per week.

Drama 243. Stagecraft and Scenic Design. **Three hours.**
Continuation of 242. One lecture period and three laboratory periods per week.

Drama 262. Fundamentals of Acting. **Three hours.**
Course designed for individual development of acting technique for stage presentation or teaching. Emphasis given to developing an acting style best suited to the individual.

Drama 264. Advanced Acting Techniques. **Three hours.**
Prerequisite: Drama 262.
Course designed for individual development of acting skills. Special emphasis given to schools of acting and different methods of preparation. Admittance to the class by approval of the instructor only.

Drama 363. (Formerly English 263.) Fundamentals of Directing. **Three hours.**
All aspects of play direction examined—staging, try-outs, rehearsals, theory, and terminology. Final examination involves direction of a one-act play.

Drama 463. Staging Problems. **Three hours.**
Prerequisites: Drama 262 and 363.
Course designed to encourage professional ability in directing. Each individual will be expected to develop a practical system of directing. Course will require several one-act plays to be directed and one three-act play for final examination.

Drama 465. Children's Theater Production. **Two hours.**
Prerequisites: Drama 242 and 363.
Dramatization of children's stories and presentation of plays for children. Student will work in training school. Principles of creative dramatics. Course developed through study, observation, and practice.

SPEECH

A student may complete a minor in Speech by taking Speech 131, 230, 231, 341, six semester hours of Speech electives, and three hours of Drama.

Speech 131. (Formerly English 163, 12) Fundamentals of Speech. **Three hours.**
Prerequisite: English 101.
Corrective work for posture and movement; characteristics of a pleasing voice; individual diagnosis of voice qualities; tone placing; enunciation; pronunciation; pitch, rate, and volume; much practice in individual speaking and reading under careful, constructive criticism.

Speech 205. (Formerly English 31, 205, 305) Discussion and Debate. **Three hours.**

Prerequisite: English 101 and 102.

Logic and semantics; process and persuasion in the formation of public opinion; application of discussion and debate as essential tools for reaching decisions in a democratic society.

Speech 206. Advanced Discussion and Debate. **Two hours.**

Prerequisite: Speech 205.

Complete preparation and practice in tournament debating and discussion. Development of proficiency in debate practice. Admittance by permission of the instructor.

Speech 230. Voice and Diction. **Three hours.**

Prerequisites: Speech 131, English 101, 102.

Standards for good voice and diction; development of proper breathing, vocal resonance, and projection of tone; the formation, description and classification of the sounds of spoken English; correct pronunciation; special speech problems; individual analysis of student's voice through phonetics and recordings.

Speech 231. (Formerly English 23, 231.) Public Speaking. **Three hours.**

Prerequisites: English 101, 102, and Speech 131.

Source and organization of speech materials; analysis of the audience; practice in preparation and delivery of speeches for various occasions, purposes and audiences; speech criticism; the use of charts, posters, and other visual aids.

Speech 331. (Formerly English 38a. 38b, and 331.) Introduction to Speech Correction. **Three hours.**

Prerequisites: English 101, 102, Speech 131 or Speech 231.

This course is designed to help the classroom teacher and the speech correctionist to work together on amelioration of speech difficulties. The normal development of speech; types of speech defects; behavior patterns of speech defectives; diagnostic and remedial procedures for functional disorders; corrective materials and techniques suited to the classroom.

Speech 341. (Formerly English 431.) Oral Interpretation. **Three hours.**

Prerequisite: Speech 230.

Sources of materials; techniques of interpretation; principles involved in critical analysis and appreciation of both the emotional and intellectual view points of literature; criteria for selecting readings; individual work under careful direction.

Speech 451. Dramatic Reading. **Three hours.**

Prerequisites: Speech 131 and 230.

The nature of dramatic reading; selecting, cutting, and presenting of the various types of dramatic literature. Attention given to movement and staging of the readings. Final examination involves recital of a platform reading period.

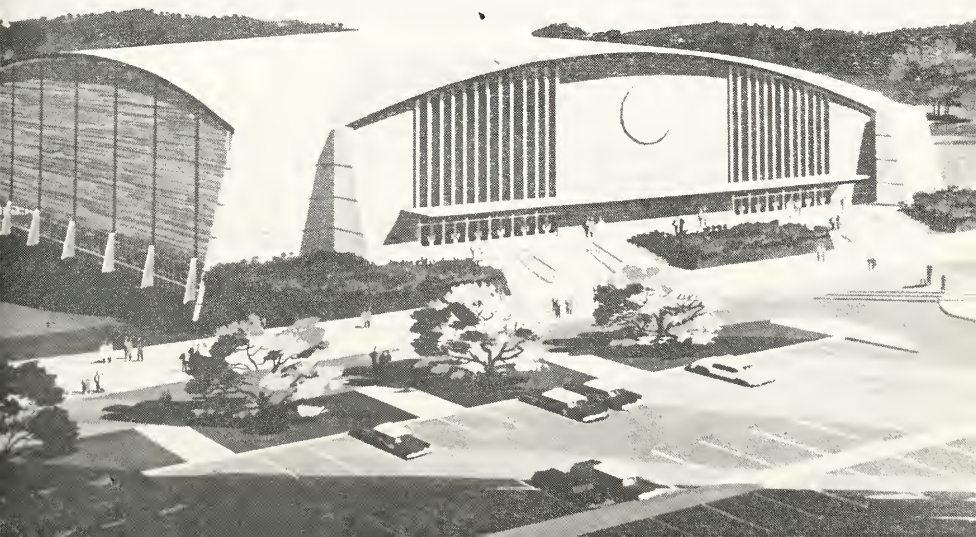
Speech 461. Problems in Teaching Speech in Elementary and Secondary Schools. **Three hours.**

Prerequisite: Speech 131, 231, 431.

Philosophy of speech education; planning a course of study; effective teaching of speech through the curricular program and through extra-curricular activities such as discussion, debate, and contests in other speech areas. Attention is given to developing the student's ability to recognize and correct children's speech problems.

The Weaver Health Building presently houses the departments of health and physical education and athletics, and the R.O.T.C. department offices. It will be used by women upon completion of Alumni Coliseum.

Alumni Coliseum, athletic-physical education plant, is scheduled for completion in January, 1963. It will be among the finest of its kind in the land.



FOREIGN LANGUAGES

A student may take an area in Foreign Languages by earning a total of at least 48 semester hours in three different languages. The 48 hours shall be distributed as follows: 18 semester hours in the leading language, 12 semester hours each in two other languages, and 6 semester hours elective. The 6 hours of electives should be in one of the languages selected for the area of concentration.

FRENCH

A student may major in French by taking a minimum of **24** hours in French.

A student with a major and a minor in other departments may take a minimum of **18** semester hours for a minor in French.

LOWER DIVISION COURSES

French 101. (Formerly French 11.) Elementary French. **Three hours.**
Pronunciation; grammar; conversation in French on material studied.

French 102. (Formerly French 12.) Elementary French. **Three hours.**
Prerequisite: French 101 or one unit of high school French.
Continuation of grammar study begun in French 101 and oral work based on reading material.

French 201. (Formerly French 21.) Intermediate French. **Three hours.**
Prerequisite: French 101 and 102 or two units of high school French. Grammar review. Selected prose readings.

French 202. (Formerly French 22.) Intermediate French. **Three hours.**
Prerequisite: French 201 or three units of high school French.
Continuation of French 201.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

French 301. (Formerly French 31.) French Prose Classics. **Three hours.**
Prerequisite: Two years of college French or the equivalent.
Reading of prose masterpieces of the seventeenth and eighteenth centuries.

French 302. (Formerly French 32.) French Prose Classics. **Three hours.**
Prerequisite: French 301 or its equivalent.
Selected prose works of the nineteenth and twentieth centuries.

French 401. (Formerly French 41.) French Drama and Poetry. **Three hours.**
Prerequisite: Two years of college French or the equivalent.
Plays and poetry of the Classical period.

French 402. (Formerly French 42.) French Drama and Poetry. **Three hours.**
Prerequisite: French 401 or its equivalent.
Selected readings of drama and poetry from the seventeenth century to the present.

French 403. (Formerly French 350.) French Seminar. **Three hours.**
Prerequisite: Twelve hours of college French.
This course is designed to round out as much as possible the major work in French, giving a view of the subject as a whole, supplementing at points which have of necessity been neglected and discussing problems for study in the future as the student goes into the teaching field or the graduate school. Review of the great schools of prose, drama, and poetry; wide readings in contemporary literature; conversation in the salon manner on problems of interest to the language student.

French 404. Advanced French Grammar and Composition. **Three hours.**
Prerequisite: Twelve hours of college French.
The aim of this course is to review the techniques of French composition, and to encourage independent writing on the part of the student. Review of phonetics and grammar; compositions on assigned subjects in French literature.

GEOGRAPHY

(Recommended curriculum for a major in Geography with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Geography 101	3	Geography 102	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Science 111	3	Psychology 211	3
Sociology 100	1	Science 112	3
Elective	4	Sociology 101	1
		Elective	2
	17		18

Second Year

Art 200	3	English 212	3
English 211	3	Geography 202	3
Geography 221	3	Geography 271	3
History 246	3	History 247	3
Military Science 201 (Men) or Elective (Women)	2	Military Science 202 (Men) or Elective (Women)	2
Elective	3	Elective	3
	17		17

Third Year

Education 315	2	Education 316	2
Geography 330	3	Education 384	2
Geology 301	3	Geography 373	3
Health 201	3	Geography 471	3
Elective	6	Music 271	3
		Elective	3
	17		16

Fourth Year

Geography Elective	3	Education 364	6
Elective	13	Education 463	10
	16		16

Recommended Curriculum for a Second Major in Geography

A student with a major in another department may take the following courses for a second major in Geography: Geography 101, 221, 271, 372, 373, 471, Geography Elective, six hours.

Recommended Curriculum for a Minor in Geography and Geology

A student with a major and a minor in other departments may take the following courses for a minor in Geography and Geology: Geography 101, 221, 271, 372, 373, 471, Geology 301, and Geology Elective, three hours.

GEOGRAPHY AND GEOLOGY

(Recommended curriculum for a major in Geography and Geology without right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Geography 101	3	Geography 102	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Science 111	3	Science 112	3
Sociology 100	1	Elective	5
Elective	4	Sociology 101	1
	17		18

Second Year

Art 200	3	English 212	3
English 211	3	Geography 271 or 202	3
Geography 221	3	Geology 301	3
History 246	3	History 247	3
Military Science 201 (Men) or Elective (Women)	2	Military Science 202 (Men) or Elective (Women)	2
Elective	3	Elective	3
	17		17

Third Year

Geography 330	3	Geography 373	3
Geography 372	3	Geography 471	3
Geology 305	3	Geography 473	3
Music 271	3	Health 201	3
Elective	5	Elective	5
	17		17

Fourth Year

Geography 475	3	Elective	17
Geology 307 or 474	3		
Elective	11		
	17		17

GEOGRAPHY AND GEOLOGY
GEOGRAPHY

LOWER DIVISION COURSES

Geography 101. (Formerly Geography 10.) Principles of Geography: Elements and Factors. **Three hours.**

The field of modern geography, earth as a member of the solar system; earth's form and movements; geographical elements; elements of weather; climates of earth; the biotic factors; the physiographic factors; edaphic and pedalogic factors; the mineral factors; the hydrographic factors; the spatial factors; the social factors; the geographic unit; geographic tools; a brief history of the changing aspects of geography.

Geography 102. Principles of Geography: Regions and Societies of the World. **Three hours.**

Prerequisite: Geography 101.

The nature of regional geography; regions of the continents; geographic patterns of mankind; population problems; man and his environment; human development of races, religions, governments, cultures, industries, institutions, occupations and activities; geography of cities; urban and rural groups; problems of today and tomorrow.

Geography 202. (Formerly Geography 20.) Climatology. **Three hours.**

Weather and weather observation; elements of climate; climate regions of the world—a study of climate as affected by the physical factors of sun, mountains, land and water; changes in temperature, pressure, winds—direction and force; humidity; cloud phenomena, precipitation, and the major types of storms; forecasting; the climatic regions of the world; weather conditions and their relation to human activities.

Geography 221. (Formerly Geography 21.) Economic Geography of the Industries. **Three hours.**

The more important agricultural products—cereals, starch foods, forage crops, vegetable crops, fruit crops, wine industries, sugar, vegetable oils, condiments and tobacco, vegetable fibers, non-food vegetables; the animal food stuffs, animal fibers, furs, skins; the mining industries; manufacturers—aluminum, automobile, copper, chemical textile, leather, iron and steel, paint, petroleum, rubber, etc.; trade routes, inland in North America and international trade routes; world trade centers.

Geography 271. (Formerly Geography 22.) Geography of Anglo-America. **Three hours.**

Prerequisite: Geography 101 or 102.

This course is a detailed study of the United States, Canada, and Alaska; structure and physiography; climate; the geographic regions of these three countries, such as the Spring Wheat Region, the Coasts of Newfoundland and Labrador, the North Pacific Coast and Mountains, the Yukon Valley, the Cotton Belt, the Lower Region, Central California, etc.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Geography 300. (Formerly Geography 30.) Geography of the South. **Two hours.**

Prerequisite: Geography 101 or 102.

The South, yesterday and today; the advancing South; the physical landscape; the cultural landscape; the major regions; the people of the South;

the races and their distribution and problems; transportation facilities; agriculture, its development, its regions, its problems, and possibilties; power resources; mineral wealth, forest resources; manufacturing and industries; comparison of rural and urban communities of the South; the South's future.

Geography 330. (Formerly Geography 23 and 230.) World Democracy and Geopolitics. **Three hours.**

Geopolitics; the ideological conflict; backgrounds of nationalism; the global war and strategy; social factors; economic factors; political factors; physical factors; religion and war; educational impacts; cultural factors; health and physical fitness: land and ocean warfare; military factors; diplomacy and war; after war, what?

Geography 372. (Formerly Geography 32.) Geography of Europe. **Three hours.**

Prerequisite: Geography 101 or 102.

The general geographic setting of Europe as a whole; the physiography, climate, economic and political geography of each of the major countries; European trade and commerce; the geographic advantages and handicaps of the various European countries that have resulted from the changes in boundaries that followed the World Wars.

Geography 373. (Formerly Geography 33.) Geography of Latin America. **Three hours.**

Prerequisite: Geography 101 or 102.

International importance of Latin America; growing interest of the United States in Latin America; historical geography of discovery, settlement and development; Caribbean resources; the Panama Canal; South America in world trade; population distribution; transportation facilities; climatic and physiographic regions; economic geography of the Pampas, the Amazon Basin, Central Mexican Plateau; the Llanos, Andean Highlands.

Geography 471. (Formerly Geography 40.) Geography of World Problems. **Three hours.**

Prerequisite: Six hours of geography.

Geography and the evolution of nations; the expansion of Europe; European influence in world affairs; economic resources; the British Empire and its many problems—India, Egypt, Ireland, South Africa; geography and problems of major nations of the Orient; Islamism; Russia, past and present; Europe in Africa; the problems of the Far East.

Geography 473. (Formerly Geography 41.) Geography of Asia. **Three hours.**

Prerequisite: Geography 101 or 102.

The structure of Asia; the physiography of Asia; the climates of Asia; the vegetation of Asia; the population of Asia; the exploration and exploitation of Asiatic countries by European nations; Asia's position in the world; the agricultural resources of Asia; summary of the economic resources of Asia; Turkey; Arab Asia; the Iranian Plateau; India; Burma; Ceylon; Southeastern Asia; the East Indies; China; Japan; Asiatic Russia; growing interest in the United States in Asia; the geographic advantages and disadvantages of the continent.

Geography 475. (Formerly Geography 43.) Geography of Africa. **Three hours.**

Prerequisite: Geography 101 or 102.

Structure; physiography; climate; vegetation; population; exploration; exploitation; position in world affairs; agricultural resources; transportation facilities; climatic and physiographic regions; foreign trade and foreign interests; comparisons and contrasts with other continents; the geographic advantages and disadvantages: changes resulting from the World Wars and post-war conditions; present-day problems and their geographic background.

Geography 476. Australia and Oceania. **Three hours.**

Prerequisite: Geography 101 or 102.

Physiography, climates, populations, economic and industrial activities, political relationships and problems, native and European cultures of the Pacific World. The locational factors of this area in peace and war.

Geography 477. (Formerly Geography 44.) Conservation of Natural Resources. **Three hours.**

History of the conservation movement; the forest resources: soil depletion and restoration; the land resources; the fertilizer resources; water origin and supply; water power; irrigation and reclamation; navigation; the mineral resources; the mineral fuels, coal, petroleum, natural gas; the metallic resources, iron, copper, lead, gold, zinc, aluminum, silver, uranium and radium; the human resources; agricultural losses.

GRADUATE DIVISION COURSES

Geography 500. Historical Geography. **Three hours.**

Prerequisite: 12 hours of Social Science or 6 hours of Geography.

The geography of the world and the United States in the past. The relations between earth's conditions and resources on the one hand, and the historical development of nations on the other; the adjustments of nations and peoples to varied environments; the evolution of the environmental relationships of the people in selected areas of the world; evolutionary geography.

Geography 501. Geography in Education. **Three hours.**

Prerequisite: 12 hours of Social Science or 6 hours of Geography.

A survey of geography in the present day school systems of the world from the elementary school to the university; examination and comparison of courses of study, objectives, outlines, offerings and problems; evaluation of departments, geographic literature, equipment, books, magazines, and other materials; the place of geography in the service of the nations.

GEOLOGY

Geology 301. (Formerly Geology 20 and 201.) Physical Geology. **Three hours.**

An introductory course in geology. Elementary map interpretation and study of the geologic phenomena: weathering, erosion, structure, vulcanism, and mountain building; knowledge of rock classification and ores. Includes one field trip.

Geology 305. Historical Geology. **Three hours.**

The course deals primarily with the history of the earth and involves certain aspects of astronomy, anthropology, and biology in addition to geology. Elementary laboratory exercises and lecture material which treats the origin of the earth and mountains, history and origin of the North American continent, the geologic time table, evolution and classification of plants and animals with laboratory recognition of the major groups of plants and animals.

Geology 306. Geomorphology. **Three hours.**

Branch of science that deals with the surface features of the globe, their form, nature, origin, and development, and the changes they are undergoing. Designed to introduce geology to the teacher with emphasis on current geologic interests and findings. Some elementary map interpretation of landforms.

Geology 307. Economic Geology. **Three hours.**

The application of geology to mineral materials. A summary of modern knowledge about where and how our valuable mineral resources are formed by nature. Non-geological background material to give the beginner an appreciation of minerals (Metallic, non-metallic, and fuels) and their importance to mankind.

Geology 474. Geography and Geology of Kentucky. **Three hours.**

Kentucky, its regions, climate, waters, soils, agriculture, occupations, manufacturing, cities, and natural resources. Regional geology and specific treatment of cave areas, natural bridges, Cumberland Falls, Cumberland Gap, Lake Cumberland, Kentucky Lake, Big Bone Lick, and river features. The future of Kentucky and its geographic and geologic associations.

GERMAN

LOWER DIVISION COURSES

German 101. Elementary German. **Three hours.**

Pronunciation; grammar; intensive reading of easy material for both fluency and understanding; questions and answers in German on the reading.

German 102. Elementary German. **Three hours.**

Prerequisite: German 101 or one unit of high school German.

Continuation of grammar study begun in German 101; intensive reading of easy material; oral and written questions and answers in German on the reading.

German 201. Intermediate German. **Three hours.**

Prerequisite: German 101 and 102 or two units of high school German.

Grammar review; vocabulary building; reading of material of fair difficulty.

German 202. Intermediate German. **Three hours.**

Prerequisite: German 201 or three units of high school German.

Grammar review; readings in classical material and in simple scientific German.

HEALTH

Recommended Curriculum for a Minor in Health Education:

The following courses make up the curriculum for the Health Education minor: Health 201, *202, *315, *364, *366, 410, 480, and Home Economics 231 and 307.

Students wishing to minor in Health Education must take 18 hours of course work including nine hours prescribed.

*Prescribed courses.

LOWER DIVISION COURSES

Health 201. (Formerly Health 100 and 201.) Personal and Community Health. **Three hours.**

A basic health content course with the emphasis on personal living habits and how they are affected by group living.

Health 202. (Formerly Health 20.) Safety and First Aid. **Two hours.**

This course is designed to prepare the student to meet emergencies in the school room, on the playground, on the athletic field, and in everyday life. The Standard Red Cross Certificate is awarded to those students completing the requirements of this course. Safety instruction is also included.

UPPER DIVISION COURSES

Health 315. Community Health Problems. **Two hours.**

This course emphasizes the place of the school in solving community health problems. Special consideration is given to maintaining safe and sanitary water and milk supplies, restaurant sanitation, and sewage disposal.

Health 364. The Organization of the School Health Program. **Two hours.**

A detailed study of the three phases of the school health program; health services, healthful school living, and health instruction. Consideration is given to coordinating school and community efforts in maintaining child health.

Health 366. (Formerly Health 365 and 366.) School Health Education. **Three hours.**

Methods, materials, and resources for effective teaching in health are presented in this course. Each student develops a teaching unit as a part of the basic health curriculum.

Health 410. Care and Prevention of Athletic Injuries. **Three hours.**

Problems of athletic injuries as they concern the coach. Discussion, demonstration, and practical experiences in the care and prevention of athletic injuries.

Health 480. Mental Health. **Three hours.**

Study of human behavior; the basic needs for positive mental health; personality growth and development; and emotional problems of children and youth.

HISTORY

(Recommended curriculum for a major in History with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
Anthropology 100	3	Art 200	3
English 101	3	English 102	3
Military Science 101 (Men) or		Military Science 102 (Men) or	
Elective (Women)	2	Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Science 111	3	Psychology 211	3
Sociology 100	1	Science 112	3
Elective	3	Social Science 101	3
		Sociology 101	1
	16		19

Second Year

English 211	3	English 212	3
History 202	3	History 203	3
History 246	3	History 247	3
Military Science 201 (Men) or		Military Science 202 (Men) or	
Elective (Women)	2	Elective (Women)	2
Science 109	3	Science 110	3
Elective	3	Elective	3
	17		17

Third Year

Education 315	2	Education 316	2
History 340	3	European History Elective	3
History Elective	6	History 498	3
Elective	6	Music 271	3
		Elective	6
	17		17

Fourth Year

Education 384	2	Education 364	6
Health 201	3	Education 463	10
History 448	3		
History 499	3		
History Elective	3		
Elective	3		
	17		16

Recommended Curriculum for a Second Major in History

A student with a first major in some other department may take the following courses for a second major in History: History 202 203, 246, 247, 340 or 341, 344 or 342 or 347, 498, and 499.

Recommended Curriculum for a Minor in History

A student with a major and a minor in other departments may take the following courses for a minor in History: History 202, 203, 246, 247, 340, and three hours elective in European History.

HISTORY

(Recommended curriculum for a major in History without right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
Anthropology 100	3	Art 200	3
English 101	3	English 102	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Science 111	3	Science 112	3
Sociology 100	1	Social Science 101	3
Elective	3	Elective	3
		Sociology 101	1
	16		19

Second Year

English 211	3	English 212	3
History 202	3	History 203	3
History 246	3	History 247	3
Military Science 201 (Men) or Elective (Women)	2	Military Science 202 (Men) or Elective (Women)	2
Science 109	3	Science 110	3
Elective	3	Elective	3
	17		17

Third Year

History 340	3	English Elective	3
History Elective	6	European History Elective	3
Elective	8	History 498	3
		Music 271	3
		Elective	5
	17		17

Fourth Year

Health 201	3	Elective	16
History 448	3		
History 499	3		
History Elective	3		
Elective	4		
	16		16

HISTORY AND POLITICAL SCIENCE

(Recommended curriculum for a major in History and Political Science with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
Anthropology 100	3	English 102	3
English 101	3	Foreign Language	3
Foreign Language	3	Military Science 102 (Men) or Elective (Women)	2
Military Science 101 (Men) or Elective (Women)	2	Physical Education 116	1
Physical Education 115	1	Psychology 211	3
Science 111	3	Science 112	3
Sociology 100	1	Social Science 101	3
		Sociology 101	1
	16		19

Second Year

English 211	3	English 212	3
History 202	3	History 203	3
History 246	3	History 247	3
Military Science 201 (Men) or Elective (Women)	2	Military Science 202 (Men) or Elective (Women)	2
Political Science 101	3	Political Science 102	3
Science 109	3	Science 110	3
	17		17

Third Year

Art 200	3	Education 316	2
Education 315	2	European History Elective	3
History 340	3	History 498	3
History 448	3	Music 271	3
Elective	6	Political Science Elective	3
		Elective	3
	17		17

Fourth Year

Education 384	2	Education 364	6
Health 201	3	Education 463	10
Political Science 455	3		
Elective	9		
	17		16

HISTORY AND POLITICAL SCIENCE

(Recommended curriculum for a major in History and Political Science without right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
Anthropology 100	3	Art 200	3
English 101	3	English 102	3
Foreign Language	3	Foreign Language	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Science 111	3	Science 112	3
Sociology 100	1	Social Science 101	3
		Sociology 101	1
	16		19

Second Year

English 211	3	English 212	3
History 202	3	History 203	3
History 246	3	History 247	3
Military Science 201 (Men) or Elective (Women)	2	Military Science 202 (Men) or Elective (Women)	2
Political Science 101	3	Political Science 102	3
Science 109	3	Science 110	3
	17		17

Third Year

History 340	3	European History Elective	3
Political Science 455	3	History 498	3
Elective	9	Music 271	3
		Political Science Elective	3
		Elective	5
	15		17

Fourth Year

Health 201	3	English Elective	3
History 448	3	Elective	12
Elective	10		
	16		15

HISTORY

LOWER DIVISION COURSES

History 202. American History to 1865. **Three hours.**

Discovery, exploration, and conquest by nations; colonization; the colonial wars; alienation of the colonies from England and eventual revolution; establishment of government and rise of a powerful nation; the War of 1812; the new nationalism; westward movement; Jacksonian democracy; the slavery controversy; Civil War.

History 203. American History since 1865. **Three hours.**

Reconstruction; the rise of industrialism; problems of the American farmer; social and cultural advance; money and the tariff; the last American frontier; America as a world power; the World Wars; politics since 1876; recent social developments.

History 246. History of Western Civilization. **Three hours.**

The emergence of pre-industrial culture; patterns of pre-industrial culture in the Near East, the Mediterranean Basin, and in Europe before the nineteenth century.

History 247. History of Western Civilization. **Three hours.**

The developing culture pattern of the industrial era of the nineteenth and twentieth centuries, with progressively more attention to its world-wide influences and with progressively more illustrative material drawn from the United States.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

History 339. Medieval Civilization. **Three hours.**

Prerequisite: History 246 and History 247.

A survey of Western Christian, Byzantine, and Saracenic cultures from the breakdown of the Roman Empire until the emergencies of the modern national states.

History 340. (Formerly History 30 and 241.) European History from 1300 to 1815. **Three hours.**

Renaissance; Reformation; rise of the national state and royal absolutism; decline of manorialism; rise of capitalism and the mercantile system; the British revolutions of the seventeenth century; international rivalries; the age of reason and enlightened despotism; the French Revolution and Napoleon.

History 341. (Formerly History 35.) English History to the Industrial Revolution (500-1763). **Three hours.**

Significance of medieval English history; the struggle for political unity; the growth of royal authority; the feudal reaction and the rise of parliament; the transition from medievalism; Tudor absolutism; the revolt against absolutism; the restoration of limited monarchy; imperial expansion; the Intellectual Revolution.

History 342. (Formerly History 37.) English History from the Industrial Revolution to the Present (1763-1962). **Three hours.**

Economic backgrounds of the 19th century; the golden age of liberalism; Gladstone and Disraeli; trends in Victorian thought; collectivism and industrial unrest; politics in the postwar era; the price of appeasement; Britain in World War II; crisis and recovery.

History 344. (Formerly History 31.) European History 1815-1914. **Three hours.**

The peace settlement of 1815; liberalism, nationalism and radicalism; the revolutionary movements of 1820-21, 1830-31, 1848-49; the unification of Italy and Germany; Bismarckian diplomacy; the causes of World War I.

History 347. (Formerly History 40.) Recent and Current World History, 1914 to the Present. **Three hours.**

World War I; the peace settlement of 1919; the problems of security, war debts and reparations; the disintegration of the peace settlement; World War II.

History 348. Latin American History. **Three hours.**

The land and people at the time of discovery; exploration and appropriation; colonization and struggle for independence; recent conditions and developments with special emphasis upon relations with the United States.

History 349. (Formerly History 34.) Survey of the Far East. **Three hours.**

This course centers mainly about China and Japan, with the European Nations and America brought in when their policies lead into the area. Some attention is given also to India, Australia and to islands of the Pacific.

History 402. The American Revolution and the Constitution. **Three hours.**

Prerequisite: History 202 or consent of instructor.

Colonial background of Revolution: internal as well as external nature of Revolution; problems associated with Confederation; and events leading up to the American Constitution.

History 404. The Ante-Bellum Period. **Three hours.**

Prerequisite: History 202 or consent of instructor.

Political sectionalism; young nationalism; economic transition; democracy's mind; politics as an art.

History 405. America's Westward Expansion. **Three hours.**

Prerequisite: History 202 and 203, or consent of instructor.

The Colonial frontier; conflicts of Empire; trans-mountain movements; the Ohio-Mississippi valleys; Indian problems; Manifest Destiny; the West and the sectional struggle; the trans-Mississippi frontiers of mining, railroads, cattle, and agriculture; West versus East.

History 406. The South in American History. **Three hours.**

Prerequisite: History 202 and 203, or consent of instructor.

Colonial developments in society and politics; the origins of sectional consciousness; the institutions of Negro slavery and the plantation system; southern ideas and ideals; the Civil War and Reconstruction; the modern South.

History 411. (Formerly first part of History 407.) Recent American History (1900-1929). **Three hours.**

Impact of industry and science; the movements of protest and change; America as a world power; World War I; big business, labor and agriculture in the 1920's; politics and prosperity.

History 412. (Formerly last part of History 407). Recent American History (1929 to Present). **Three hours.**

The Great Depression; the Hoover administration and the New Deal; social, economic and political changes in the 1930's; isolationism and World War II; revival of big business; America's new responsibilities in the world.

History 430. American Social and Intellectual History to 1850. **Three hours.**

Prerequisite: History 202 or consent of instructor.

European influences; the colonial mind; revolutionary attitudes; New England's leadership; the movement of protest and reform; the rise of a native literature.

History 431. American Social and Intellectual History since 1850. **Three hours.**

Prerequisite: History 203 or consent of instructor.

The Civil War; Protestantism and Capitalism; Social Darwinism; the literature of naturalism and realism; the twentieth century mind.

History 432. American Constitutional History. **Three hours.**

Prerequisite: History 202 and 203, or Government 211, or consent of instructor.

Origins of the Constitution; John Marshall's impact; the sectional conflict and the Constitution; the Constitution and the triumph of capitalism; the industrial crisis and a Constitutional revolution.

History 444. European Social and Intellectual History since 1815. **Three hours.**

A study of European civilization in the 19th and 20th centuries with special emphasis upon institutions, ideas, and cultural forms distinguishing the period.

History 448. (Formerly History 55a and 448a) Topics in History and Social Science. **Three hours.**

(Required of and open only to students majoring in history or social science.)
Prerequisites: History 202, 203, 246, 247, 340, and 344.

This course is designed to introduce students to the elements of research in social science and history and to develop facility of expression in writing. Selection of topics for study will be made on the basis of the previous training and special interests of the students participating. Topics may be selected in American or European history or in economics, government, or sociology.

History 461. (Formerly History 46.) Kentucky History. **Three hours.**

General, social, economic, and political history of Kentucky; her influence in the development of American democracy; her periods of leadership in the nation; her educational system; Kentucky's great men and women; historical sources of Kentucky.

History 498. The Ideological Foundations of Western Civilzation. **Three hours.**

(Required of all undergraduate and graduate students majoring or minoring in history or social science.)

Introduction to the basic concepts in the ideological heritage of the Western World from the end of the medieval age through the Enlightenment. Reading materials will consist largely of selections from the great books and documents in religion, science, economics, political theory, and philosophy.

History 499. The Ideological Foundations of Western Civilization. **Three hours.**

(Required of all undergraduate and graduate students majoring or minoring in history or social science.)

Introduction to the basic concepts in the ideological heritage of the Western World from the Enlightenment to the present. Reading materials will consist largely of selections from the great books and documents in religion, science, economics, political theory, and philosophy.

GRADUATE DIVISION COURSES

History 500. The Perfection of Man and Society. **Three hours.**

Prerequisite: History 498 and 499.

A detailed analysis of the ethical positions of Plato and Aristotle and of the modern attack upon ethics from Hobbes through Ayer. The course's objective is to explore the conflict between ancient and modern thought upon the central issue of the social sciences, namely, whether knowledge of right and wrong is possible. The problem that dominates the course is, then, this: can one man's convictions concerning the nature of the good life and the good society be judged superior to those of another, or are such convictions merely a matter of preference?

History 504. (Formerly History 449.) History as a Social Science. **Three hours.**

The scientific approach to social problems and their historical interpretation; an analysis of the economic, social, intellectual, and political backgrounds of contemporary civilization.

History 505. Problems in American History. **Three hours.**

Prerequisite: Consent of instructor.

An examination of some of the basic controversial aspects of the development of the American people and their culture. Relevant areas might include Protestantism, capitalism, agrarianism, sectionalism, liberalism, internationalism.

HOME ECONOMICS

(Suggested for an Area in the Field of Vocational Home Economics with right of teaching certificate. Deviation from this curriculum may be permitted to take care of individual differences.)

First Year

First Semester	Hours	Second Semester	Hours
Art 117	3	Biology 219	3
English 101	3	English 102	3
Home Economics 204 or 215	3	Home Economics 203	3
Physical Education 115	1	Home Economics 215	3
Science 111	3	Physical Education 116	1
Social Science 100	3	Social Science 101	3
Sociology 100	1	Sociology 101	1
	17		17

Second Year

Art 200	3	Chemistry 112b	4
Chemistry 111	4	History 247	3
History 246	3	Home Economics 231	3
Home Economics 206	3	Music 271	3
Home Economics 208	3	Psychology 211	3
	16		16

Third Year

Commerce 230 or 260	3	Education 304	4
English 211	3	Education 316	2
Home Economics 222	3	English 212	3
Home Economics 250	3	Home Economics 305	3
Home Economics 301	3	Home Economics 306	3
Home Economics 302	3	Home Economics 330	3
	18		18

Fourth Year

Home Economics 307	3	Education 364	4
Home Economics 402	3	Education 463	10
Home Economics 403	5	Education 466	3
Sociology 331 or 332	3		
Elective	2		
	16		17

Recommended Curriculum for a Minor in Home Economics

A student with a major and a minor in other departments may take the following courses for a minor in Home Economics: Foods, 6 hours; Clothing, 6 hours; House, 3 hours; Family and Child Development, 3 hours.

Classification of Home Economics Courses

For certification purposes Home Economics courses are classified as follows:

Housing, Home Furnishings, Equipment: 250 222, 301.

Foods and Nutrition: 204, 215, 302, 306, 406.

Clothing and Textiles: 101, 155, 203, 206, 305, 308, 455.

Health and Home Care of Sick: 231.

Family Relationships and Child Care: 208, 307, 338, 402.

Family Economics and Home Management: 330, 403.

HOME ECONOMICS

LOWER DIVISION COURSES

Home Economics 101. (Formerly Home Economics 10.) Textiles. **Two hours.**
Physical and chemical characteristics of the various textile fibers; the weaves, finishes, durability and care of fabrics; application of scientific information to the purchase and use of fabrics.

Home Economics 155. (Formerly Home Economics 12.) Costume Design. **Two hours.**
Principles of design as related to the costume; study of line, color, and texture in fabrics as related to different types of individuals.

Home Economics 203. (Formerly Home Economics 20.) Garment Making. **Three hours.**
Clothing selection, fabric, planning and construction. A study of factors that influence the selection of a college wardrobe. Fundamental construction techniques, use of commercial patterns, fittings and alterations. Lecture one hour and laboratory work.

Home Economics 204. (Formerly Home Economics 21a.) Family Meals—Planning, Selecting, Preparing and Serving. **Three hours.**
Composition of foods; the nutritive value of foods; diet in relation to health; the fundamental principles involved in planning, preparing, and serving three meals a day.

Home Economics 206. (Formerly Home Economics 23.) Dressmaking. **Three hours.**
Prerequisite: Home Economics 203 or its equivalent.
Selection, construction and consumer education. Advanced problems in the selection, planning, construction techniques and problems effecting the consumer in relation to clothing. Lecture one hour and laboratory work.

Home Economics 208. Personal Relationships in the Home and Community. **Three hours.**
Personality development and personal problems in adjustment are studied. Consideration is given to individual adjusting to home, school, vocation, marriage, and community. Required of all freshmen in home economics. Open to non-majors in home economics.

Home Economics 215. (Formerly Home Economics 21b.) Family Meals, Planning, Selecting and Preparing. **Three hours.**
Prerequisite: Home Economics 204 or its equivalent.
Planning, preparing, and serving three meals a day. Table service, etiquette, hospitality, and special entertainments emphasized.

Home Economics 222. (Formerly Home Economics 24.) Interior Decoration. **Three hours.**
Prerequisite: Art 117.
Decoration and furnishing for the interior of the house. Laboratory work in refinishing of furniture, slip covers and drapes.

Home Economics 231. (Formerly Health 22 and 231.) Health and Home Care of the Sick. **Three hours.**
The health of the family and simple procedures for the care of patients in the home are stressed.

Home Economics 250. (Formerly Home Economics 25.) The House. **Three hours.**
Architecture; house plans; landscaping; materials suitable for building a home, financing a home.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Home Economics 301. (Formerly Home Economics 30.) Household Equipment. **Three hours.**

Standards for selecting and buying household equipment and small appliances. Providing for adequate electric and gas service in home. Maintenance of household equipment and appliances.

Home Economics 302. (Formerly Home Economics 31.) Advanced Cookery. **Three hours.**

Prerequisite: Home Economics 215; Chemistry 111 and 112b.

Reasons for results in food products; skills and techniques of cookery.

Home Economics 305. (Formerly Home Economics 34.) Tailoring and Design. **Three hours.**

Prerequisite: Home Economics 203 and 206; Chemistry 111 and 112b.

A study of design in clothing and tailoring. Construction techniques in tailoring a suit or coat. Lecture one hour and laboratory work. This course planned for teacher education. The students prepare teaching materials for use in clothing classes.

Home Economics 306. (Formerly Home Economics 35.) Advanced Nutrition. **Three hours.**

Prerequisite: Chemistry 112b, Science 111, and Biology 219.

Food nutrients and functions in the body. Construction of an adequate diet for persons under varying economic and social conditions.

Home Economics 307. The Family in the Home and the Community. **Three hours.**

Problems relative to marriage. Factors which contribute toward developing a well adjusted family; relation of the family in the community.

Home Economics 308. (Formerly Home Economics 37.) Advanced Textiles. **Three hours.**

Prerequisite: Home Economics 101. Chemistry 111 and 112b.

The advanced study of textile fibers; chemical tests.

Home Economics 309. Principles of Nutrition. **Three hours.**

This course includes non-technical nutritional information. Emphasis is placed on the use of nutritional information for promoting a high degree of physical fitness. Study is made of menus, family food budgets, and recent trends in American dietary habits.

Home Economics 310. Nutrition for the Elementary Teacher. **Two hours.**

The fundamentals of nutrition. The importance of good nutrition to the child. Ways to interest the child in good nutrition. Results of good nutrition.

Home Economics 330. (Formerly Home Economics 33.) The Family as a Consumer. **Three hours.**

An appreciation of the factors which influence home and family living; a study of management problems relating to: Time, energy, money, equipment, as well as personal development in relationships and hospitality.

Home Economics 338. Current Trends in Child Development. **Three hours.**

Study of current concepts and trends in the study of child development. Includes recent research concerning problems in child growth and development, and methods of presenting child development to high school groups.

Home Economics 402. (Formerly Home Economics 41.) Child Development. **Three hours.**

Prerequisite: Psychology 211 and Education 316.

Care necessary for physical, mental, emotional, and social development of the child from infancy through adolescence; observation of children.

Home Economics 403. (Formerly Home Economics 43.) Home Management. **Five hours.**

Prerequisite: Home Economics 302, 306 and 330.

Improvement of skills in the management of time, money, and energy; meal planning; food buying; preparation and serving of meals; cleaning; laundrying. Family relationships, etiquette, and hospitality are emphasized.

Reservations for appointment to live in the Home Management House should be made several weeks prior to the beginning of the semester.

Home Economics 406. Newer Knowledge of Nutrition. **Three hours.**

Prerequisite: Home Economics 306.

Study of latest research in nutrition and diets in relation to diseases.

Home Economics 455. (Formerly Home Economics 42.) Advanced Costume and Design. **Three hours.**

Prerequisite: Home Economics 155 and Art 117.

The application of art principles in color and line, in designing and construction of garments.

Home Economics 456a. Special Problems in Home Economics. **One hour.**

The student chooses a problem and works under the supervision of the instructor in the field of the problem.

Home Economics 456b. Special Problems in Home Economics. **One hour.**

A continuation of Home Economics 456a.

Home Economics 456c. Special Problems in Home Economics. **One hour.**

A continuation of Home Economics 456b.

INDUSTRIAL ARTS

COMPREHENSIVE AREA CURRICULUM

(Recommended curriculum for a major in the area of Industrial Arts with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Industrial Arts 100	3	Industrial Arts 130	1
Industrial Arts 191	3	Industrial Arts 141	3
Military Science 101	2	Industrial Arts 180	3
Physical Education 115	1	Military Science 102	2
Science 109	3	Physical Education 116	1
Social Science 100	3	Science 110	3
Sociology 100	1	Social Science 101	3
		Sociology 101	1
	19		20

Second Year

Art 117	3	English 212	3
English 211	3	Industrial Arts 233	2
Industrial Arts 242	3	Industrial Arts 292	3
Industrial Arts 281	3	Industrial Arts 382	3
Military Science 201	2	Military Science 202	2
Social Science Elective	3	Psychology 211	3
		Social Science Elective	3
	17		19

Third Year

Education 315	2	Education 316	2
Health 201	3	Industrial Arts 343	3
Industrial Arts 271	3	Industrial Arts 353	3
Industrial Arts 311	3	Industrial Arts 467	3
Industrial Arts 351	3	Science or Mathematics Elective	3
Science or Mathematics Elective	3	Elective	3
	17		17

Fourth Year

*Art Elective	3	Education 364	4
Education 384	2	Education 463	10
Industrial Arts 394	3	Industrial Arts 466	3
Industrial Arts Elective	2		
Elective	6		
	16		17

Industrial Arts courses are to be elected to complete a total of 50 semester hours not including Industrial Arts 271.

Recommended Curriculum for a First Major in Industrial Arts:

A student may take the following courses for a first major in Industrial Arts and other departmental courses for a second major or minors: Industrial Arts 100, 130, 141, 180, 191, 233, 242, 281, 292, 351, 394, 466.

*Elect Art 201, 202, or 217.

INDUSTRIAL ARTS

TECHNICAL AREA CURRICULUM

(Recommended curriculum for a major in the area of Industrial Arts with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Industrial Arts 100	3	Industrial Arts 130	1
Industrial Arts 191	3	Industrial Arts 141	3
Mathematics 107	3	Industrial Arts 180	3
Military Science 101	2	Mathematics 113	3
Physical Education 115	1	Military Science 102	2
Social Science 100	3	Physical Education 116	1
Sociology 100	1	Social Science 101	3
		Sociology 101	1
	19		20

Second Year

Art 117	3	English 212	3
English 211	3	Industrial Arts 233	2
Industrial Arts 242	3	Industrial Arts 292	3
Industrial Arts 281	3	Industrial Arts 382	3
Military Science 201	2	Military Science 202	2
Social Science Elective	3	Psychology 211	3
		Social Science Elective	3
	17		19

Third Year

Education 315	2	Education 316	2
Health 201	3	Industrial Arts 343	3
Industrial Arts 311	3	Industrial Arts 353	3
Industrial Arts 351	3	Industrial Arts 467	3
Physics 131	5	Physics 132	5
	16		16

Fourth Year

*Art Elective	3	Education 364	4
Education 384	2	Education 463	10
Industrial Arts 394	3	Industrial Arts 466	3
Industrial Arts Elective	2		
Elective	6		
	16		17

Industrial Arts courses are to be elected to complete a total of 50 semester hours not including Industrial Arts 271.

*Elect Art 201, 202, or 217.

INDUSTRIAL ARTS

INDUSTRIAL TECHNOLOGY CURRICULUM

(Recommended curriculum in the area of Industrial Arts without right of teaching certificate for those planning to secure employment in industry)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Industrial Arts 100	3	Industrial Arts 130	1
Industrial Arts 191	3	Industrial Arts 141	3
Mathematics 107	3	Industrial Arts 180	3
Military Science 101	2	Mathematics 113	3
Physical Education 115	1	Military Science 102	2
Social Science 100	3	Physical Education 116	1
Sociology 100	1	Social Science 101	3
		Sociology 101	1
	19		20

Second Year

English 211	3	English 212	3
Industrial Arts 242	3	Health 201	3
Industrial Arts 292	3	Industrial Arts 382	3
Military Science 201	2	Military Science 202	2
Physics 131	5	Physics 132	5
	16		16

Third Year

Chemistry 111	4	Art 117	3
Industrial Arts 233	2	Commerce 119	3
Industrial Arts 293, 392, or 492	3	Commerce 230	3
Industrial Arts 351	3	Industrial Arts 353	3
Mathematics 232	3	Industrial Arts Elective	3
Elective	2	Social Science Elective	3
	17		18

Fourth Year

Industrial Arts 466	3	Industrial Arts Elective	7
Industrial Arts Elective	4	Elective	9
Speech 131 or 205	3		
Elective	6		
	16		16

A minimum of 50 semester hours is to be completed in Industrial Arts. At least 20 hours should be in the general area of specialization which may be represented by the drafting, metal, wood, or electricity-electronics areas in the Industrial Arts Department. Industrial Arts 271 is not to be counted toward the minimum 50 hour total.

INDUSTRIAL ARTS

LOWER DIVISION COURSES

Industrial Arts 100. (Formerly Industrial Arts 10.) General Shop. **Three hours.**

Introductory course involving basic units in drawing, woodworking, sheet metal, art metal, bench metal, leather craft, plastics and electricity; projects and practical shop problems in each activity.

Industrial Arts 130. Design Orientation. **One hour.**

An introduction to design theory and practice related to developing industrial arts projects. Emphasis on using contemporary materials and technical processes in solving design problems.

Industrial Arts 141. (Formerly Industrial Arts 11.) Elementary Woodwork. **Three hours.**

Basic woodworking course including instruction in the use of common hand tools, related information, problems in elementary furniture construction, wood turning, finishing and characteristics of common hard and soft woods.

Industrial Arts 180. General Metalwork I. **Three hours.**

Basic hand and elementary machine operations and related information in sheet metal, bench metal, art metal, arc and oxyacetylene welding, projects and practical shop problems in each area of activity.

Industrial Arts 191. (Formerly Industrial Arts 13.) Technical Drawing I. **Three hours.**

A beginning course stressing problem solving, lettering, sketching, orthographic projection, pictorial representation, tracing, and reproduction of drawings.

Industrial Arts 221. General Crafts. **Two hours.**

A basic crafts course involving activities in wood carving, lamination and sculpture; leathercraft, art metal enameling and jewelry; plastics. Emphasis on the avocational aspects of crafts.

Industrial Arts 233. (Formerly Industrial Arts 15.) Industrial Arts Design. **Two hours.**

Prerequisite: Industrial Arts 191.

Study and application of the principles of three-dimensional design related to industrial arts media. Emphasis placed on experimentation and problem-solving in developing design solutions. Design and construction of projects involving both handicraft and mass production processes.

Industrial Arts 241. General Woodworking. **Two hours.**

Basic operations and information units in hand and machine woodwork; common woods; care and maintenance of tools; finishing of woods; jointery and construction problems. Emphasis on woodworking as an avocation.

Industrial Arts 242. (Formerly Industrial Arts 21.) Intermediate Woodwork. **Three hours.**

Prerequisite: Industrial Arts 141.

Advanced hand woodworking units; operation of common woodworking machines; care and sharpening of tools; related information; construction and finishing of furniture projects.

Industrial Arts 243. General Woodworking II. **Two hours.**

Additional operations in machine and hand woodwork; jointery; related information; construction problems; finishing techniques and maintenance of equipment. Emphasis on woodworking as an avocation.

Industrial Arts 249. (Formerly Industrial Arts 14.) Wood and Metal Finishing. **Two hours.**

Prerequisite: Industrial Arts 100 or 141.

Characteristics of woods and metals; preparation of surface for finishing; staining, sealing, and filling; use of varnish, shellac and lacquer; art metal finishing; finishing abrasives and rubbing; refinishing of furniture.

Industrial Arts 271. Industrial Mathematics. **Three hours.**
A course in general mathematics dealing with common and decimal fractions, percentage, ratio and proportion, graphs, strength of materials, work and power, geometric construction, and the computation of weights of various industrial materials and objects.

Industrial Arts 281. General Metalwork II. **Three hours.**
Basic hand tool and elementary machine operations and related information in foundry, forging, heat treating and machine shop projects and practical problems in each area of activity.

Industrial Arts 283. (Formerly Industrial Arts 27.) Arc and Oxyacetylene Welding. **Three hours.**
Manipulative processes and related information basic to successful welding techniques.

Industrial Arts 292. (Formerly Industrial Arts 20.) Technical Drawing II. **Three hours.**
Prerequisite: Industrial Arts 191.
The making of detail and assembly drawings; production illustrations; forms of bolts, nuts, and threads; dimetric projections; Sepia and Van Dyke intermediates; sketches and drawings from actual parts.

Industrial Arts 293. (Formerly Industrial Arts 23.) Technical Drawing III. **Three hours.**
Prerequisite: Industrial Arts 191.
Advance drafting techniques with special emphasis placed on map drafting and sheet metal layout.

Industrial Arts 294. (Formerly Industrial Arts 28.) House Planning. **Two hours.**
A course with general education values. Planning a residence, including site selection, floor plans, elevations, details, and specifications; orders of architecture; common styles of homes, interior features; building materials.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Industrial Arts 303. (Formerly Industrial Arts 30.) Shop Planning and Equipment. **Two hours.**
Types of industrial arts shops; shop planning; machine and tool specifications; design of shop furniture; selection of supplies.

Industrial Arts 311. Graphic Arts I. **Three hours.**
A course in general graphic arts with emphasis on hand composition, elementary presswork, silkscreen principles, linoleum block printing and bookbinding.

Industrial Arts 312. Graphic Arts II. **Three hours.**
A course in graphic arts with emphasis on machine printing, production techniques, and off-set lithography.

Industrial Arts 322. (Formerly Industrial Arts 16 and 222.) Industrial Arts for Elementary Teachers. **Three hours.**
Appropriate projects and media for elementary teachers, basic hand tools, use of native materials in elementary projects, classroom improvements and objects constructed typical of those used in the project method.

Industrial Arts 323. (Formerly Industrial Arts 32.) Weaving and Upholstery. **Two hours.**
Prerequisite: Industrial Arts 100 or 141.
Upholstering plain surfaces and frame structures: upholstering with springs; renovation; caning; split and fiber weaving; materials; tools and tool processes.

Industrial Arts 326. (Formerly Industrial Arts 29.) Crafts I. **Three hours.**

An introduction to activities involving various media in the crafts; leather; jewelry; art metal enameling; plastics; wood carving; the making of archery equipment; utilizing materials available to playgrounds, community centers and summer camps.

Industrial Arts 328. Crafts II. **Three hours.**

Prerequisite: Industrial Arts 326.

An advanced course in the crafts concerned with silversmithing; plastics; art metal; advanced art metal enameling.

Industrial Arts 343. (Formerly Industrial Arts 31a.) Advanced Woodwork I. **Three hours.**

Prerequisite: Industrial Arts 242.

Additional practice in furniture construction involving skill in the use of machines and hand tools; joinery; bending and laminating wood; finishing; wood technology; maintenance of equipment.

Industrial Arts 344. (Formerly Industrial Arts 33.) Wood Turning. **Three hours.**

Prerequisite: Industrial Arts 242.

Common wood turning problems, sharpening tools; operations in spindle, chuck, and faceplate turning; finishing and polishing.

Industrial Arts 345. (Formerly Industrial Arts 31b.) Advanced Woodwork II. **Three hours.**

Prerequisite: Industrial Arts 343.

Continuation of Industrial Arts 343 with increased emphasis on craftsmanship, the development of a high degree of skill in furniture construction and knowledge of related information.

Industrial Arts 346. (Formerly Industrial Arts 39 and 395.) Carpentry. **Six hours.**

Prerequisite: Industrial Arts 242.

Problems in small home construction; form building; framing, masonry; electrical wiring; interior finishing; painting; practice in actual construction.

Industrial Arts 351. Fundamentals of Applied Electricity. **Three hours.**

Principles of static and current electricity; measures of electricity; heat; light and power applied to the planning and construction of electrical installations; building of projects and repair of appliances.

Industrial Arts 352. Electrical Power and Motor Repair. **Three hours.**

Generation and distribution of electricity; power distribution systems; maintenance and repair of electrical motors.

Industrial Arts 353. Introduction to Radio and Electronics. **Three hours.**

Prerequisite: Industrial Arts 351.

Basic principles of radio, electronics and high fidelity; project construction and servicing techniques.

Industrial Arts 382. (Formerly Industrial Arts 34.) Machine Shop Practice I. **Three hours.**

Prerequisite: Industrial Arts 281.

Projects constructed involving basic operations performed on the lathe, drill press, shaper, bench grinder, power contour saw, and advanced bench work; blueprint reading and related information.

Industrial Arts 383. (Formerly Industrial Arts 35.) Art Metalwork. **Three hours.**

Techniques of designing, laying-out, raising; planishing, chasing, etching, spinning, soldering, engraving and finishing projects made of nonferrous metals.

Industrial Arts 385. (Formerly Industrial Arts 25.) Sheet Metalwork. **Three hours.**

Prerequisite: Industrial Arts 180 and 281.

Care and use of common sheet metal tools and machines; layouts; templates; projects involving soldering, seaming, punching, riveting, forming and spot welding.

Industrial Arts 392. Blueprint Reading. **Three hours.**

Prerequisite: Industrial Arts 292.

Study and analysis of the different types of blueprints common to the woodworking, metalworking, electrical and building trades.

Industrial Arts 394. (Formerly Industrial Arts 37.) Elementary Architectural Drawing. **Three hours.**

Prerequisite: Industrial Arts 191.

Basic principles of house planning; floor plans, rafter plans, foundation plans, plot plans, elevations, detail sheets, presentation sheets, specifications, material estimates; architectural modeling; comparative study of building materials; common styles of home architecture; a complete set of plans for a small home.

Industrial Arts 401. Special Problems in Industrial Arts. **Three hours.**

A course for undergraduates involving independent study and research related to problems of a theoretical and/or practical nature.

Industrial Arts 444. (Formerly Industrial Arts 41.) Machine Woodworking. **Two hours.**

Prerequisite: Industrial Arts 242.

Special machine operations; repairing and servicing power woodworking machinery.

Industrial Arts 454. Advanced Radio and Electronics I. **Three hours.**

Prerequisite: Industrial Arts 353.

Advanced principles of radio; television receiving and transmitting; servicing techniques and project construction.

Industrial Arts 455. Principles of Television. **Three hours.**

Prerequisite: Industrial Arts 454.

Introduction to television, antenna theory and installation, frequency modulation, transmitting procedures, closed circuit television operation and servicing techniques.

Industrial Arts 464. (Formerly Industrial Arts 42.) History and Philosophy of Industrial Education. **Two hours.**

The history of industrial education from its early beginning to the present; the contribution of leaders; movements in the development of industrial arts and vocational education; modern concepts of industrial arts; legislation for vocational education and the state plan.

Industrial Arts 466. (Formerly Industrial Arts 46.) Teaching of Industrial Arts. **Three hours.**

The function and objectives of industrial arts; the industrial arts curriculum; methods of presentation; instructional aids; planning, equipping and organizing the laboratory; instructional materials; demonstration lessons; evaluating student achievement.

Industrial Arts 467. Problems and Practices of the General Shop. **Three hours.**

The planning and organization of physical laboratory facilities with emphasis on the comprehensive general shop and the general unit shop. Preparation of instructional materials in the form of designs and exemplary projects.

Industrial Arts 487. (Formerly Industrial Arts 44.) Machine Shop Practice II. **Three hours.**

Prerequisite: Industrial Arts 382.

Continuation of Industrial Arts 382 with increased emphasis on machine, tool operations; gear cutting, tool and cutter grinding, problems in tool making; related technical information.

Industrial Arts 488. (Formerly Industrial Arts 45.) Machine Shop Practice III. **Three hours.**

Prerequisite: Industrial Arts 487.

Practice in advanced machine operations and tool making; heat treating of metals; related technical information.

Industrial Arts 489. Characteristics and Maintenance of Machine Tools. **Two hours.**

Prerequisite: Industrial Arts 487.

A study of machine design and construction; installing, servicing, powering, and rebuilding machine tools.

Industrial Arts 492. Technical Drawing IV. **Three hours.**

Prerequisite: Industrial Arts 292.

Machine drawing dealing with advanced detail drawing; advanced assembly drawing; patent drawing; production illustrations and tool design.

Industrial Arts 496. (Formerly Industrial Arts 47.) Advanced Architectural Drawing. **Three hours.**

Prerequisite: Industrial Arts 394.

Preparation of a complete set of plans for a three bedroom or larger home; study of building techniques and materials used in house construction; structural modeling.

GRADUATE DIVISION COURSES

Industrial Arts 562. Philosophy of the Practical Arts and Vocational Education. **Three hours.**

Background, purpose, and relationship of the practical arts and vocational education; relationship of both to total program of education; current philosophies of the practical arts and vocational education.

Industrial Arts 564. Special Problems in Industrial Arts. **One to six hours.**

Problems of particular value to the teacher in the field, both of a practical and of a research nature will be pursued by the student and developed through conferences and activities directed by the staff.

Industrial Arts 565. Curriculum Practices and Trends in Industrial Arts. **Three hours.**

Current concepts and trends in industrial arts; principles underlying curriculum construction and development; long range planning for improvement of programs.

Industrial Arts 566. Seminar in Industrial Arts. **Three hours.**

A course designed for the graduate student in industrial arts. Current problems and issues in the total field of industrial education will be studied with an emphasis placed on identifying their philosophical and/or psychological dimensions. Research techniques appropriate for industrial education with an emphasis on experimental design and statistical procedures of analysis. Each student will be expected to plan and complete a minor research paper, and to present his findings to the seminar.

Industrial Arts 567. Thesis Research in Industrial Arts. **Six hours.**

Students preparing theses are expected to register for three hours of thesis research in each of two semesters.

Industrial Arts 568. Advanced Design. **Three hours.**

An advanced course in design emphasizing problem-solving and experimentation with industrial arts media.

LATIN

Major—A minimum of 24 semester hours to be selected.

Minor—A minimum of 18 semester hours to be selected.

LOWER DIVISION COURSES

Latin 101. (Formerly Latin 115 and 10.) Elementary Latin. **Three hours.**

Pronunciation; declension of nouns, adjectives, and pronouns; indicatives; infinitives; simple uses of subjunctive verbs; acquisition of the fundamental principles of the language; ability to read simple Latin prose dealing with Roman home life, mythology, and Roman history.

Latin 102. (Formerly Latin 116 and 11.) Elementary Latin. **Three hours.**
Prerequisite: One unit of high school Latin or Latin 101.

Caesar and a wide range of authors of equal difficulty; vocabulary, inflection, syntax, and their application to English; collateral reading on Roman history and society; training in the understanding of Latin in the Latin order.

Latin 201. (Formerly Latin 12.) Selections from Cicero and Ovid. **Three hours.**
Prerequisite: Two units of high school Latin or Latin 102.

Selections from the works of Cicero, Ovid, Pliny, and others; continued emphasis on mastery of vocabulary and syntax; emphasis on the relation of Latin to English; comparison of the government of the Roman Republic to that of democracies of the present day.

Latin 202. (Formerly Latin 205 and 13.) Selections from Vergil's Aeneid. **Three hours.**
Prerequisite: Two or three units of high school Latin or Latin 201.

Selections from Aeneid of Vergil; study of the Augustan age; study of metrical form and structure of the poem; continued emphasis on Latin inflection and constructions.

UPPER DIVISION COURSES

(Open primarily to Junior, Senior, and Graduate Students)

Latin 301. (Formerly Latin 15.) Selections from Livy. **Three hours.**
Prerequisite: Three units of high school Latin or the equivalent.

Survey of Roman history from the foundation of Rome to the close of the second Punic War; assigned readings from such historians as Mommsen, Heitland, and others; comparative study of Rome and Carthage; critical study of Livy's style.

Latin 302. (Formerly Latin 16.) Selections from Horace. **Three hours.**
Prerequisite: Three units of high school Latin or the equivalent.

Selected odes, epodes, and satires from Horace; study of the Augustan age from both a literary and political point of view; study of Horace's philosophy; various meters employed by Horace.

Latin 303. (Formerly Latin 22.) The Writing of Latin Prose. **Three hours.**
Prerequisite: Latin 301 or the equivalent.

Selections from the text, "Arnold's Latin Prose"; review of syntax, sight reading.

Latin 304. (Formerly Latin 23.) The Latin Dramatists. **Three hours.**
Prerequisite: Latin 301 or the equivalent.
Dramas of Plautus, Terence, and Seneca; two plays of Plautus for intensive study; rapid reading of other representative plays.

Latin 401. (Formerly Latin 41.) Latin Prose of the Silver Age. **Three hours.**
Prerequisite: Latin 302 or the equivalent.
Letters of Pliny the Younger; selections from the writings of Tacitus.

Latin 402. (Formerly Latin 32.) Satire and Epigram. **Three hours.**
Selected satires of Juvenal; selected epigrams of Martial; development of satire in Latin literature with assignments from Horace; satire in English; epigram as a literary expression.

Latin 403. (Formerly Latin 31.) Latin Literature of the Early Empire. **Three hours.**
Prerequisite: Latin 302 or the equivalent.
The Oxford University Press text—selections compiled by A. C. B. Brown. The selections form a connected and contemporaneous discussion of politics, education, literature, philosophy, social types, and town and country life.

Latin 404. (Formerly Latin 30.) Literature of the Late Republic. **Three hours.**
Prerequisite: Latin 302 or the equivalent.
Selections from the works of Caesar, Sallust, Nepos, and Cicero with emphasis on Ciceronian prose as a basis of much of the thinking and writing since his day; selections from works of poets of this age with emphasis on the works of Catullus and Lucretius.

Latin 405. (Formerly Latin 42.) Roman Private Life. **Three hours.**
Lectures, discussions, and readings on Roman family, home, marriage, education, clothing, food, amusements, travel, religion, town and country life.

LIBRARY SCIENCE

A student with a major and a minor in other departments may minor in Library Science by earning 18 hours to meet the certification requirements of the State Board of Education for all schools of the state.

The program in Library Science is open to students of upper division standing who have demonstrated a good scholastic standing and an evidence of fitness for school library work. A knowledge of the use of the typewriter is desirable. Those students desiring to continue their library education in a graduate library school are encouraged to acquire the ability to read at least one modern foreign language.

LOWER DIVISION COURSES

Library Science 166. (Formerly Library Science 10.) Library Orientation. **One hour.**

Discussion of the card catalog; library plans; principles of classification; mechanical make-up of the books; reference books; indexes; bibliographies; printed aids in book sections.

UPPER DIVISION COURSES

Library Science 301. Children's Literature. **Three hours.**

Study of the literature of children and the selection of books and non-book materials for the school library is stressed. The role of the functional library in relation to the educational program and the services of school library are emphasized.

Library Science 311. School Library Management. **Three hours.**

This course covers the evaluation and organization of materials at hand; the ordering of new books and preparing them for circulation; classification; simple cataloging; setting up a simple loan system; use of student aid; knowledge of standard equipment and supplies; use, care, and repair of books; and the keeping of statistical records.

Library Science 321. Reference. **Three hours.**

The course is designed to extend the student's knowledge of general and specialized reference works. It is intended to provide information for satisfactory use of library resources. Materials used will be formal reference books, non-fiction books which may have reference value, periodicals and pamphlets. Special emphasis will be placed on the selection of reference books and on the preparation of bibliographies.

Library Science 331. Classification and Cataloging. **Three hours.**

Prerequisite: Library Science 311.

Principles of simplified classification and cataloging will be studied with author, title, and subject cards being made. Attention will be centered on actual classification and cataloging of school library books. Some instruction in the cataloging of audio-visual aids will be given.

Library Science 401. Young People's Literature. **Three hours.**

Study and selection of books for the adolescent. Stresses reading interests, levels and needs of young people as well as books and some material supplemental to the school curriculum.

Library Science 441. School Library Practice. **Three hours.**

Prerequisite: Library Science 301, 311, and 321 and others except as may be taken at the same time as this course.

Library practice in the school library designed to give the trainee practical experience in many phases of school library service, including desk work, teaching children the use of reference materials, and assisting in the preparation of books for circulation. Reading guidance, story telling and the organization of unit materials are stressed.

Library Science 463. Instructional Materials for the School Library. **Three hours.**

Evaluation, selection, preparation, use and handling of non-book materials for the school library. Some preparation of free and inexpensive materials will be discussed.

MATHEMATICS

(Recommended curriculum for a major in Mathematics with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Mathematics 107	3	Mathematics 108	2
Military Science 101 (Men) or Elective (Women)	2	Mathematics 113	3
Physical Education 115	1	Military Science 102 (Men) or Elective (Women)	2
Social Science 100	3	Physical Education 116	1
Sociology 100	1	Psychology 211	3
Elective	3	Social Science 101	3
		Sociology 101	1
	16		18

Second Year

English 211	3	English 212	3
Health 201	3	Mathematics 251	5
Mathematics 232	3	Military Science 202 (Men) or Elective (Women)	2
Military Science 201 (Men) or Elective (Women)	2	Physics 132 or 202	5 or 6
Physics 131 or 201	5 or 6	Elective	2
Elective	2		
	18 or 19		17 or 18

Third Year

Education 315	2	Education 316	2
History 246	3	History 247	3
Mathematics 352	3	*Mathematics Elective	3
**Restrictive Elective	3	**Restrictive Elective	3
Elective	6	Elective	6
	17		17

Fourth Year

Education 384	2	Education 364	4
*Mathematics Elective	6	Education 463	10
Elective	8	Mathematics 467	3
	16		17

Recommended Curriculum for a Second Major in Mathematics

A student with a first major in some other department may take the following courses for a second major in Mathematics: Mathematics 107, 108, 113, 232, 251, 352, and two courses from the following: Mathematics 321, 333, 334, 408, 409, 453, 454, 455.

Recommended Curriculum for a Minor in Mathematics

A student with a major and a minor in other departments may take the following courses for a minor in Mathematics: Mathematics 107, 108, 113, 232, 251, 352.

*Electives to be taken from Mathematics 215, 321, 333, 334, 408, 409, 453, 454, 455, and 456.

**Restrictive Elective will require that the student select six hours from the following: Art 200, Art 390, Art 391, six hours of Foreign Language, History 498, History 499, Music 271, Music 371, Music 372.

MATHEMATICS

(Recommended curriculum for a major in Mathematics without right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Mathematics 107	3	Mathematics 108	2
Military Science 101 (men)		Mathematics 113	3
or		Military Science 102 (Men)	
Elective (Women)	2	or	
Physical Education 115	1	Elective (Women)	2
Social Science 100	3	Physical Education 116	1
Sociology 100	1	Social Science 101	3
Elective	3	Elective	2
		Sociology 101	1
	16		17

Second Year

English 211	3	English 212	3
Mathematics 232	3	Mathematics 251	5
Military Science 201 (Men)		Military Science 202 (Men)	
or		or	
Elective (Women)	2	Elective (Women)	2
Physics 131 or 201	5 or 6	Physics 132 or 202	5 or 6
Elective	3	Elective	2
	16 or 17		17 or 18

Third Year

English Elective	3	History 247	3
History 246	3	*Mathematics Elective	3
Mathematics 352	3	**Restrictive Elective	3
**Restrictive Elective	3	Elective	7
Elective	4		
	16		16

Fourth Year

Health 201	3	*Mathematics Elective	6
*Mathematics Elective	3	Elective	10
Elective	10		
	16		16

*Electives to be taken from Mathematics 215, 321, 333, 334, 408, 409, 453, 454, 455, and 456.

**Restrictive Elective will require that the student select six hours from the following: Art 200, Art 390, Art 391, six hours of Foreign Language, History 498, History 499, Music 271, Music 371, Music 372.

MATHEMATICS AND ASTRONOMY

LOWER DIVISION COURSES

Mathematics 107. (Formerly Mathematics 10.) College Algebra I. **Three hours.**

Review of high school algebra; exponents and radicals; functions and their graphs; equations and their solutions; systems of linear and quadratic equations; ratio and proportion; progressions.

Mathematics 108. (Formerly Mathematics 11.) College Algebra II. **Two hours.**

Prerequisite: Mathematics 107.

Mathematical induction; binomial theorem; theory of equations; permutations; combinations; probability; determinants; partial fractions.

Mathematics 113. (Formerly Mathematics 12.) Trigonometry. **Three hours.**

Prerequisite: Mathematics 107.

The trigonometric functions; logarithms; right triangle; radian measure; properties of the trigonometric functions; functions of two angles; the oblique triangle; the inverse trigonometric functions.

Mathematics 201. Understanding Arithmetic. **Three hours.**

This course is for future teachers in the elementary grades. Emphasis is put on meaning rather than upon manipulation as such. The topics covered are number and numerals, sets and numbers, number operations, the fundamental operations, number scales, number structure, fractions, decimals and the real number system.

Mathematics 202. Understanding Elementary Mathematics. **Three hours.**

Prerequisite: Mathematics 201.

This course is a continuation of Mathematics 201 with the introduction of the ideas of modern mathematics, elementary logic, geometry, the number concept, extending the number system, numeration, exponents, measurement, functions and graphs.

Mathematics 215. Statistics. **Three hours.**

Prerequisites: Mathematics 107, 113.

Introductory course in statistics with emphasis on the understanding of concepts presented rather than on techniques used in any one particular area of application. Arithmetic mean; median; mode; standard deviation; normal curve; probability; coefficient of correlation; principle of least squares; chi-square criterion.

Mathematics 232. (Formerly Mathematics 21.) Analytic Geometry. **Three hours.**

Prerequisite: Mathematics 108, 113.

Rectangular coordinates; fundamental definitions and theorems; functions and graphs; equation of a locus; the line; polynomials; rational fractional functions; transformation of coordinates; the circle, parabola, ellipse and hyperbola; the trigonometric curves; the exponential and logarithmic curves; parametric equations; polar coordinates; solid analytic geometry.

Mathematics 251. (Formerly Mathematics 22 and 23.) Differential Calculus. **Five hours.**

Prerequisite: Mathematics 232.

Variables; functions; differentiation; applications of the derivative; successive differentiation; parametric and polar equations and roots; differentials; curvature; theorem of mean value and its application; series; expansions of functions; partial differentiation; integration by elementary forms.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Mathematics 321. (Formerly Mathematics 30.) General Astronomy. **Three hours.**

Development of astronomy as a science; development of the solar system; astronomical instruments; better known facts of astronomy.

Mathematics 333. Introduction to Non-Euclidean Geometry. **Three hours.**

Prerequisite: Mathematics 251 or consent of the instructor.

Finite geometries; foundations of Euclidean geometry with investigations of the tacit assumptions of Euclid; Hilbert's postulates; Euclid's Fifth Postulate; the discovery of Non-Euclidean geometry; hyperbolic plane geometry; elliptic plane geometry; consistency of the Non-Euclidean geometries.

Mathematics 334. Modern College Geometry. **Three hours.**

Prerequisite: High School Geometry and Mathematics 232.

Logical systems and basic laws of reasoning; special topics of axiomatic geometry; Menelaus's and Ceva's theorems; harmonic elements and cross ratio; projective geometry; basic axioms; duality; Desargues's theorem; perspective figures; coordinate projective geometry; transformation theory.

Mathematics 352. (Formerly Mathematics 32.) Integral Calculus. **Three hours.**

Prerequisite: Mathematics 251.

Integration; constant of integration; definite integral; integration as a process of summation; centroids; fluid pressure; other applications and multiple integrals.

Mathematics 401. Fundamentals of Mathematics I. **Three hours.**

Prerequisite: One year of college mathematics.

A course designed to broaden and deepen backgrounds for teaching and to give new insights into basic ideas both old and new. A study of the foundations and topics of algebra emphasizing postulational thinking, and a consideration of modern algebra as it is likely to affect the high school curriculum. Three hours lecture and discussion.

Mathematics 402. Fundamentals of Mathematics II. **Three hours.**

A course designed to enlarge the horizons of the high school teacher and to acquaint him with the concept of geometry as a logical system. Introduction of analytic geometry as well as non-Euclidean geometries and a consideration of recommended changes in high school geometry. Three hours lecture and discussion.

Mathematics 408. Introduction to Modern Algebra I. **Three hours.**

Prerequisite: Mathematics 251 or consent of the instructor.

Some fundamental concepts, sets, mapping, equivalence relations, operations; rings and integral domains, isomorphisms; some properties of the integers; fields with emphasis on construction of the various number systems; groups.

Mathematics 409. Introduction to Modern Algebra II. **Three hours.**

Prerequisite: Mathematics 408.

Polynomials over rings and fields; matrix algebra; vector spaces; systems of linear equations; linear transformations.

Mathematics 453. (Formerly Mathematics 41.) Differential Equations. **Three hours.**

Prerequisite: Mathematics 352.

Differential equations of the first order; applications; singular solutions; linear equations with constant coefficients; miscellaneous methods for solving equations of higher order than the first; integration in series; total differential equations.

Mathematics 454. (Formerly Mathematics 42.) Advanced Calculus. **Three hours.**

Prerequisite: Mathematics 352.

Review of elementary calculus with attention focused on the concepts of function and limit; the real number system; continuity; least upper bounds; nested intervals; continuous functions; Cauchy's generalized law of the mean; indeterminate forms; Taylor's series with remainder; functions of several variables; homogeneous functions; implicit functions; partial differentiation; allied topics.

Emphasis is placed throughout on the fundamental principles and methods of analysis.

Mathematics 455. Theoretical Mechanics. **Three hours.**

Same as Physics 455.

Prerequisite: Mathematics 352 and Physics 202.

Mathematics 456. (Also listed as Physics 456.) Vector Analysis and Its Physical Application. **Three hours.**

May be taken either in the Mathematics or Physics Department.

Prerequisites: Mathematics 352 and Physics 202.

Mathematics 467. The Teaching of High School Mathematics. **Three hours.**

Prerequisite: Ten hours of college mathematics or consent of the head of the department.

The history of mathematics; historical background of the mathematics curriculum; new developments in secondary school mathematics; significance for the modern curriculum; recommendations of various groups; some improvement programs for school mathematics; thorough examination of texts and materials; a consideration of some of the newer topics such as sets, bases other than ten, logic, structures; aims and problems of teaching; motivation; techniques of teaching; evaluation; the preparation of the teacher.

MILITARY SCIENCE

The primary mission of the Reserve Officer's Training Corps (ROTC) is to produce junior officers for all components of the United States Army. A vital secondary mission is to impart citizenship training, develop leadership potential and to stimulate and motivate the student for future useful service in behalf of the Nation in whatever profession he chooses. The basic aim is to develop in each student habits of cheerful and appropriate response to constituted authority, loyalty, patriotism, self-discipline, personal bearing and precision.

At the request of this institution, the United States Army established a Reserve Officer's Training Corps (ROTC) Unit at Eastern Kentucky State College in 1936. Initially, the ROTC program offered a commission only in Artillery, without regard to the student's academic background. In 1955, with mutual agreement between the college and the Department of the Army, the program was changed to a General Military Science curriculum which provides instruction in leadership and military fundamentals common to all branches of the Army. Upon graduation a student may now be commissioned in one of fourteen branches consonant with his academic major, his preference, and the requirements of the military service. Those branches are: Armor, Artillery, Infantry, Signal Corps, Engineers, Chemical Corps, Adjutant General's Corps, Finance Corps, Military Police Corps, Ordnance Corps, Quartermaster Corps, Medical Service Corps, Transportation Corps and Military Intelligence.

The Army ROTC program at Eastern Kentucky State College is divided into two courses of two years each. These are the BASIC course normally taken in the freshman and sophomore years, and the ADVANCED course taken in the junior and senior years. Completion of the basic course is a prerequisite for the advanced course. Between the junior and senior years the student attends a six weeks camp at an Army Post where he is given an opportunity to put into practice the military theory learned at Eastern Kentucky State College. Successful completion of the basic and advanced courses and the summer camp is required to be eligible for a commission.

Basic Course—The ROTC basic course of two years duration is compulsory for all able-bodied male students. This course is a college requirement for graduation. Students may be excused from this requirement in rare cases only upon recommendation of the Professor of Military Science after a personal interview, and approval by the President of Eastern Kentucky State College. Once a student is enrolled he must continue in the basic course each semester he is enrolled in college until the basic course has been completed satisfactorily. Students may be excused from formal enrollment in the basic course in the following instances:

(a) If not a citizen of the United States
(b) If under 14 years of age; or if cannot qualify for appointment as Second Lieutenant prior to reaching 28 years of age
(c) If medically unfit to perform General Military Service.

A student who has previous military experience or has completed ROTC training in high school or in another college will, after a conference with the Professor of Military Science, be enrolled in the course for which previous training qualifies him, or be excused from enrollment under certain conditions.

Students transferring to this college after completing part of the basic course elsewhere must continue the course at this college until successful completion. Students transferring to this college who have not been enrolled in the basic course elsewhere will be required to enroll in and complete the basic course if their classification upon enrollment is less than that of a second-semester sophomore. In any event, male transfer students must consult with the Professor of Military Science for determination of enrollment.

Advanced Course—The advanced course is offered to those students who have successfully completed the basic course and who have been recommended by the Professor of Military Science and approved by the President of the College. Such recommendations will be limited to those students who have shown special interest and ability during the basic course, who have stated a desire to continue in the advanced course to qualify for a commission in the Regular Army or the Army Reserve, and who achieve satisfactory score on the prescribed standardized qualification test. A student selected will receive a subsistence allowance of ninety ($.90) cents per day, or approximately $535.00 for the two year course. During the summer following the junior year, students in the advanced course will attend a summer camp of six weeks duration. While attending summer camp, members of the advanced course are paid at the rate of $78.00 per month and are furnished subsistence, housing, uniforms and medical care, and are paid a travel allowance to and from camp. Enrollment in the advanced course will be limited to students who can qualify for appointment as Second Lieutenants prior to reaching 28 years of age. Those who enroll must sign an agreement with the United States Government to complete the advanced course and attend summer camp. Upon successful completion of the advanced course and recommendation by the Professor of Military Science and the President of the College, students may be commissioned as Second Lieutenants in the Army Reserve at the time their degree is conferred. Distinguished Military Students, so designated in their senior year by the Professor of Military Science for outstanding achievement during the preceding three-year period, have an opportunity to apply for Regular Army Commissions. This opportunity is extended only to those students of high leadership potential and who stand academically in the upper one-third of the advanced course.

Credit—The basic course is presented in two classroom hours and one drill period per week for both Military Science I (freshmen) and Military Science II (sophomores), for which two hours credit are awarded for each semester.

The advanced course is presented in four classroom hours and one drill period per week during the fall semester. During the spring semester the advanced course is presented in one classroom hour and one drill period per week. However, advanced students must take a three hour subject matter elective substitute course during the spring semester (see advanced course curriculum for Military Science III and IV). The student receives four hours credit each fall semester and one hour credit each spring semester for a total of five hours credit each year in the advanced program. He receives constructive credit, towards meeting advance course requirements, for the three hour subject matter elective substitute course both years. The subject matter elective substitute course may be taken during either semester and need not be limited to the spring semester.

Since the basic course in Military Science is a requirement for a degree, students should confer with their faculty advisor or the Dean of the College to determine the most advantageous use of ROTC credits.

Medical Examinations—Section 44 of the National Defense Act requires that students must be "physically fit to perform military duty, or will be so upon arrival at military age." In order that this law may be carried out, each applicant is required to undergo certain medical examinations as a prerequisite for enrollment and continuance in the Reserve Officer's Training Program.

Applicants for enrollment in the basic course may be examined by any doctor of medicine. Such examinations will be at no expense to the government. Each male student enrolling for the first time at this college should therefore attach to his application for enrollment, or bring with him at time of registration, a report of physical examination performed by a civilian physician.

Examinations for students selected for enrollment in the advanced course will be arranged for by the Professor of Military Science at no cost to the students.

ROTC Extracurricular Activities—

a. Company R, 1st Regiment of the National Society of Pershing Rifles—Membership in the Pershing Rifles Company is open to basic and advanced course students who exhibit outstanding leadership and military ability.

b. The Lieutenant John "Nick" Combs Memorial Company, Association of the United States Army, Eastern Kentucky State College Chapter—Membership in this organization is open to

all ROTC students. An outstanding extracurricular social activity presented during the spring semester each year by this organization is the Military Ball. A portion of the fee charged each cadet enrolled in ROTC entitles him to all privileges of the Military Ball.

c. Rifle Team—Another extracurricular activity is the rifle team, which is a recognized athletic team at Eastern Kentucky State College.

MILITARY SCIENCE

LOWER DIVISION COURSES (BASIC)

Military Science 101. Introduction to Military Science. **Two hours.**

Organization of the Army and ROTC; individual weapons and marksmanship; *basic military subjects; leadership laboratory.

Military Science 101a. Basic Course in Military Band. **One-half hour.**

Military Science 102. Basic Military Training. **Two hours.**

Prerequisite: Military Science 101 or equivalent.

U. S. Army and national security; *basic military subjects; leadership laboratory.

Military Science 102a. Basic Course in Military Band. **One-half hour.**

Prerequisite: Military Science 101a.

Military Science 201. Second Year Basic Military Training. **Two hours.**

Prerequisite: Military Science 102 or equivalent.

Map and aerial photograph reading; introduction to basic tactics and techniques; leadership laboratory.

Military Science 201a. Basic Course in Military Band. **One-half hour.**

Prerequisite: Military Science 102a.

Military Science 202. Second Year Basic Military Training. **Two hours.**

Prerequisite: Military Science 201 or equivalent.

American military history; leadership laboratory.

Military Science 202a. Basic Course in Military Band. **One-half hour.**

Prerequisite: Military Science 201a.

UPPER DIVISION COURSES (ADVANCED)

Military Science 301. First Year Advanced Military Training. **Four hours.**

Prerequisite: Basic course or equivalent.

Leadership; military teaching principles; small unit tactics and communications; leadership laboratory.

Military Science 302. First Year Advanced Military Training. **One hour.**

Prerequisite: Military Science 301.

Branches of the Army; **precamp orientation; leadership laboratory; ***academic subject elective.

Military Science 401. Second Year Advanced Military Training. **Four hours.**

Prerequisite: Military Science 302.

Operations; logistics; army administration; military law; leadership laboratory.

Military Science 402. Second Year Advanced Military Training. **One hour.**

Prerequisite: Military Science 401.

The role of the United States in world affairs; service orientation; leadership laboratory; ****academic subjects.

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*To include military first aid; care of mass casualties; chemical-biological-radiological warfare; drill and ceremonies.

**This 5-hour course may be introduced as substitute instruction in leadership laboratory.

***Elective academic subjects must be chosen from the following general academic areas during the junior and senior years; must be approved in advance by the Professor of Military Science:

1. Effective Communication: English 301, 302, 318, 321, 322, 325, 331, 421, 423, 424, 425 and 441.
   Language: Any three hour graduate course in English or any upper division language course.
2. Any three hour upper or graduate division course in Chemistry, Physics, Biology, Science, Geography and Mathematics.
3. General Psychology: Psychology 308.
4. Political Development and Political Institutions: Political Science 410, 455, and 456.

   History: Any upper or graduate division three hour course.

   In the event that a particular subject is required in the student's normal academic curriculum during freshman and sophomore years, electives must be selected either from another general area or from an upper division subject in the same area. However, if the subject selected was not required in the student's academic curriculum during the freshman and sophomore years, complete freedom of selection from within the four above stated academic areas is permissable. The Professor Military Science will evaluate and approve the elective subjects selected. Consideration will be given to the value of the subject in furthering the professional qualifications of the student as a prospective commissioned officer in the United States Army.

****Academic subject elective courses are from the same areas and courses as for Military Science III.

MUSIC

Background. Before selecting the field of music for special or major concentration, the student will consult with the head of the department. Because the training of a music teacher requires a better musical background, together with more knowledge and skill, than may be acquired during the normal four years of college, students who select music as a major should have had some pre-college music training and must have certain natural aptitudes. It is highly desirable that a student be a fairly proficient pianist before coming to college. However, proficiency on some other instrument may have an equivalent value.

Ensemble Participation. The requirements for ensemble participation are the same for all areas and majors in music, both professional and non-professional degrees. The student should, during the first semester in college, make plans with the head of the department for the proper satisfaction of this requirement.

Activities. Students who are taking an area or a major in music will be expected to participate in the activities and organizations of the Music Department, including the Music Club and the student chapter of MENC, and to accept such assignments as are given them in these connections.

Recital Attendance. Attendance at all of the college concerts, and at a certain specified number of recitals, is required. In the case of those who are taking applied music, such attendance is a requirement for credit.

Public Performance. Before accepting an engagement for public performance, the student of applied music must secure the approval of his teacher in that particular field.

Applied Music Requirements.

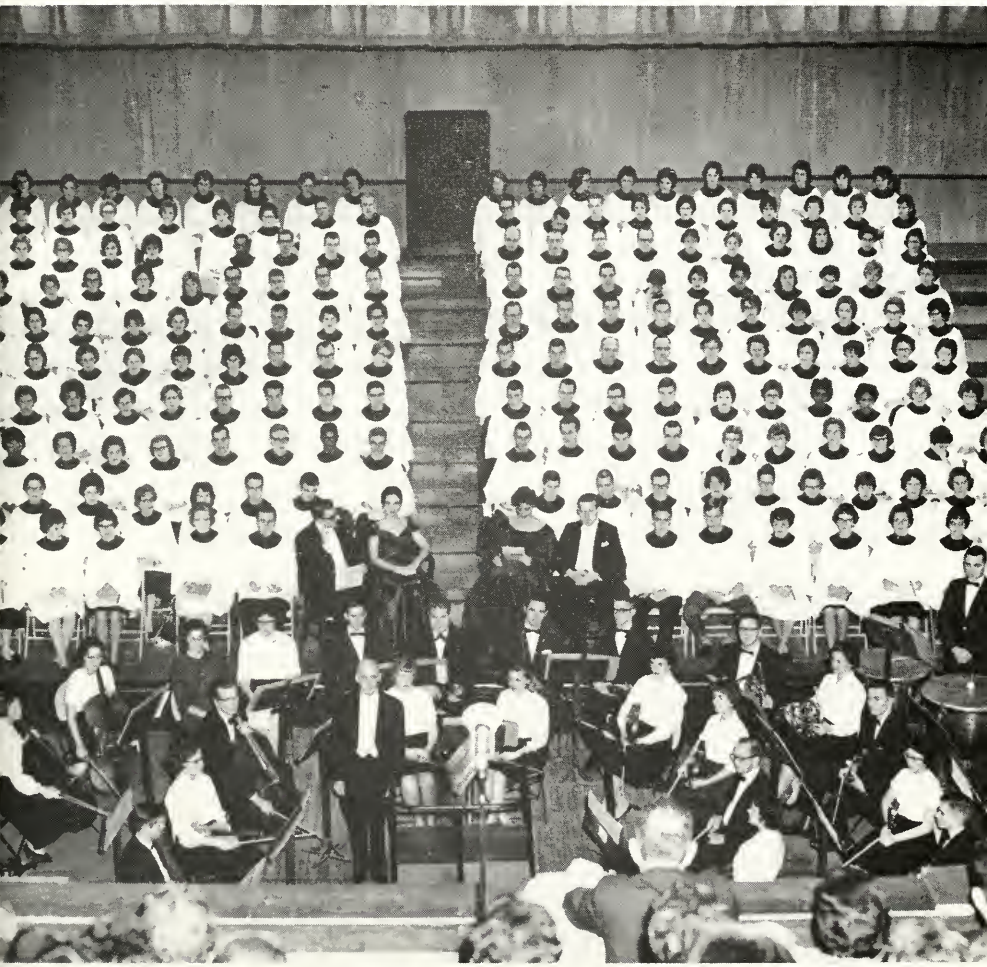
Major Applied—Each Music area student is required to study his major instrument for seven semesters.

Secondary Applied — Music 130-131, String Class; Music 320, Class Voice (not required of voice majors); Music 350-351, Wind Classes; Piano requirements as outlined below.

Before graduation, all music area students must have four credits in public performance, on the following basis: one credit for each solo performance; one-half credit for each ensemble performance or each accompaniment on piano of major length and difficulty.

Secondary Piano. Since Piano is the basic instrument in the teaching of music in the public schools, the student must fulfill certain minimum Piano requirements before graduation. Every

music area and music major student should be able to play simple piano accompaniments at sight; to play the easier chordal 4-part folk songs and hymns; to harmonize at sight tunes from elementary music series books; and to show reasonable competency in transportation. It is important that he play with accuracy and assurance, and up to tempo. For the instrumental major, this requirement may be met by completing Music 110 and 111, each with a grade of B. For the voice major, piano must start the first semester in college and continue until minimum requirements are met.



The Messiah Chorus during the annual Christmas presentation of Handel's "Messiah."

MUSIC AREA

(Recommended curriculum in the area of Music with right of teaching certificate)

First Year

First Semester	[1]Hours	Second Semester	[1]Hours
English 101	3	English 102	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Applied Music—major instrument	1	Applied Music—major instrument	1
[2]Music 110	1	[2]Music 111	1
Music 130	1	Music 131	1
Music 180	2	Music 182	2
Music 181	2	Music 192	2
Music 191	2	Physical Education 116	1
Physical Education 115	1	Science 110	3
Science 109	3	Sociology 101	1
Sociology 100	1		
	19		17

Second Year

English 211	3	English 212	3
Military Science 201 (Men) or Elective (Women)	2	Military Science 202 (Men) or Elective (Women)	2
Applied Music—major instrument	1	Applied Music—major instrument	1
[3]Piano, or Elective	1	[3]Piano, or Elective	1
Music 281	2	Music 272	3
Music 291	2	Music 282	2
Science Elective	3	Music 292	2
Social Science 100	3	Psychology 211	3
	17		17

Third Year

Education 315	2	Education 316	2
History 246	3	History 247	3
Applied Music—major instrument	1	Applied Music—major instrument	1
[4]Music 320	2	Music 351	2
Music 350	2	Music 364	2
Music 363	2	Music 366	2
[5]Music 367	2	Music 372	3
Music 371	3	[5]Music 384	2
	17		17

Fourth Year

Health 201	3	Education 364	6
Applied Music—major instrument	1	Education 463	10
Music 380	2		
Science Elective	3		
Social Science Elective	3		
Elective	6		
	18		16

[1] In addition to the courses outlined, music students will be taking from ½ to 2 credits in Band, Orchestra, and Choir each semester.

[2] Piano requirements for instrumental major will be met by completion of Music 110 and 111, each with a grade of "B."

[3] If instumental majors have completed their piano requirements, they may take an elective here. Vocal majors should take Music 112a to complete their requirements.

[4] Music 320, Class Voice, not required of Voice majors.

[5] Students whose major instrument is piano, who will not be teachers of vocal or instrumental ensembles, and who elect the piano field for their ensemble participation, may substitute Music 361, Teaching Repertory, and Music 463, Teaching Piano in Classes, for Music 367, Instrumental Techniques, and Music 384, Arranging.

Summary of Music Recommendations for Area with Right of Certification

	Hours
Music 180 Elements of Music	2
Music 181-2 Harmony I and II	4
Music 281-2 Harmony III and IV	4
Music 191-2 S. S. & E. T. I and II	4
Music 291-2 S. S. & E. T. III & IV	4
Music 380 Form and Analysis	2
Music 384 Arranging	2
Music 272 Basic Music Literature	3
Music 371-2 Mus. Hist. I and II	6
Music 363 Grade Meth. & Mat.	2
[1]Music 364 High School Music	2
Music 366 Conducting	2
Music 367 Inst. Techniques	2
[2]Music 110-111 Piano	2
Music 320 Class Voice	2
Music—Applied Major	7
Music 130-1 String Class	2
Music 350-1 Wind Class	4
[3]Ensembles	5-9
	61-65

Summary of Music Recommendations for Area Without Certification

Music 180 Elements of Music	2
Music 181-2 Harmony I and II	4
Music 281-2 Harmony III and IV	4
Music 191-2 S. S. & E. T. I and II	4
Music 291-2 S. S. & E. T. III and IV	4
Music 380 Form and Analysis	2
Music 381-2 Counterpoint	4
Music 272 Basic Music Literature	3
Music 371-2 Mus. Hist. I and II	6
Music 361 or 362 Teach. Rep.	1
Music Applied, with Recital	16
[3]Ensembles	6-9
	56-59

Major in Music

The following courses are recommended for a Major in Music **with** right of teaching certificate:

Vocal	
Music 180 Elements of Music	2
Music 181-2 Harmony I and II	4
Music 191-2 S. S. & E. T. I and II	4
Music 363 Grade Methods	2
Music 366 Conducting	2
Music 272 Basic Music Literature	3
Music 371-2 Mus. Hist. I and II	6
Music 110-111 Piano	2
Applied Elective	2
Music 130-1 String Class	2
Music 320 Voice Class	2
	31

Instrumental	
Music 180 Elements of Music	2
Music 181-2 Harmony I and II	4
Music 191-2 S. S. & E. T. I and II	4
Music 367 Inst. Techniques	2
[4]Music 366 Conducting	2
Music 272 Basic Music Literature	3
Music 371-2 Mus. Hist. I and II	6
Music 110-111 Piano	2
Applied Elective	2
Music 350-1 Wind Class	4
	31

[1] Students whose principal interest is in piano and who select the piano field of ensemble participation may substitute Music 361 (Teaching Repertory) and 463 (Teaching Piano in Classes) for Arranging and for High School Music. If only one substitution is made, Arranging will be the course to be dropped.

[2] Four hours of Piano for Voice major. To fulfill requirements, Piano beyond the indicated hours may be necessary.

[3] See optional fields of ensemble participation on page 168.

[4] Students whose principal musical interest is in piano, who will not teach vocal or instrumental ensembles and who elect the piano field for their ensemble participation, may substitute Music 361 (Teaching Repertory) for Music 366 (Conducting) unless already substituted as in footnote #1.

Recommended Curriculum for a Second Major in Music Without Right of Teaching Certificate

Music 180 Elements of Music	2	Music 272 Basic Music Literature	3
Music 181-2 Harmony I and II	4	Music 371-2 Mus. Hist. I and II	6
Music 191-2 S. S. & E. T. I and II	4	Elective	5
			24

Curriculum for a Minor in Music Without Right of Teaching Certificate

Courses for the minor must be selected in consultation with the Head of the Music Department.

ENSEMBLE PARTICIPATION

These requirements are the same for all music major and music area students. Every student shall, upon consultation with his faculty advisor or with the head of the department, select one of the following fields of ensemble participation. Such participation must begin with the first semester of the freshman year. In order to discharge the requirements for ensemble participation, only consecutive semesters shall be considered as constituting a year. This statement represents the minimum requirements for music majors; more extensive participation is advised for the sake of the musical and professional growth of the individual.

Voice	Piano
4 years Choir	2 years Choir
1 year Piano 112a* required in addition to Music 110 and 111	2 years Accompanying
	1 year Elective
5 years Total	5 years Total
Orchestra	**Band**
4 years Orchestra	4 years Band
1 year Choir/Band/Ensembles	1 year Choir/Orchestra/Ensembles
5 years Total	5 years Total

* Or Two hours Music 112, if minimum qualification can be met.

MUSIC FEES

Class Instruction, per semester

Music 130, 131, 350, 351—Wind and String Instruments	$ 5.00
Music 110, 111, 320—Class Piano and Class Voice	12.00

Individual Instruction, per semester

All instruments and voice.....Two lessons per week	36.00
One lesson per week	22.50
Practice room, Piano, Voice, one hour daily per semester	5.00
Practice room, String and Wind Instruments, one hour daily per semester	2.50
Use of college-owned instrument, string or wind, one semester	3.00

Note: When content courses are taught on an individual basis, the fees in these courses will be the same as the fees in applied music.

APPLIED MUSIC

Except as noted, instruction is given in individual lessons of two one-half hour periods each week. Piano or voice classes are two one-hour periods each week; string class, three periods; wind classes, three periods.

LOWER DIVISION COURSES

Music 11. Piano. **No credit.**
Introductory course in piano for students who do not meet the minimum requirements for Music 112.

Music 12. Voice. **No credit.**
Introductory course, preparatory to Music 122.

Music 13a. Violin. **No credit.**
An introductory course, preparatory to Music 132.

Music 13b. Viola. **No credit.**
An introductory course, preparatory to Music 134.

Music 13c. Violoncello. **No credit.**
An introductory course, preparatory to Music 136.

Music 15. Wind Instruments. **No credit.**
An introductory course for those who wish to learn to play any of the woodwind or brass instruments.

Music 110. Class Piano. **One hour.**
Introductory course for vocal and instrumental students, designed, with Music 111, to meet the piano requirements as outlined in the catalog for Secondary Piano.

Music 111. Class Piano. **One hour.**
Prerequisite: A grade of "B" in Music 110.
Continuation of Music 110.

Music 112. Piano. **One or two hours.**
Two lessons per week, with approximately six hours of practice and study per week.

Music 112a. Piano. **One or two hours.**
Prerequisite: A grade of "B" in Music 111, or the equivalent.
A course in private instruction continuing the aims and purposes of Music 110 and 111.

Music 122. Voice. **One or two hours.**

Music 130. String Class. **One hour.**
To provide for the beginner who wishes to learn to play a string instrument an opportunity to study under the stimulus of class instruction; to start the beginner on the road toward sufficient playing and technical ability to teach strings in class and to train the string section of a school orchestra.
The first semester is devoted to the study of one particular instrument. Three periods each week.

Music 131. String Class. **One hour.**
A continuation of Music 130. During this semester the student may devote some attention to string instruments other than his principal class instrument. Three periods each week.

Music 132. Violin. **One or two hours.**

Music 134. Viola. **One or two hours.**

Music 136. Violoncello. **One or two hours.**

Music 142. Organ. **One or two hours.**
Prerequisite: Four years of piano study.

Music 152. Wind Instrument. **One or two hours.**

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Music 312. Piano. **One or two hours.**

Music 320. Class Voice. **Two hours.**

This is a course in basic vocal techniques designed for students whose applied major is not voice. Sight reading ability and music aptitude are prerequisites.

Music 322. Voice. **One or two hours.**

Music 332. Violin. **One or two hours.**

Music 334. Viola. **One or two hours.**

Music 336. Violoncello. **One or two hours.**

Music 342. Organ. **One or two hours.**

Music 350. (Formerly Music 250.) Band Instrument Class I. **Two hours.**

A class in woodwind instruments, with some attention to percussion. Practical instruction in methods of tone production, tuning, fingering, and care of the instruments; group instruction, involving handling and playing of the woodwind instruments of the band and orchestra; the examination of materials suitable for beginning bands. This course will give the student some practical experience in elementary conducting. Three periods each week.

Music 351. (Formerly Music 251.) Band Instrument Class II. **Two hours.**

A class in brass instruments, with some attention to percussion, similar to Music 350. Three periods each week.

Music 352. Wind Instrument. **One or two hours.**

MUSIC

LOWER DIVISION COURSES

[1]**Music 125.** Choir. **One hour.**

The College Choir is open to all college students who qualify. The organization aims to develop and perpetuate a high standard of choral-ensemble singing. Each year the Choir makes a number of appearances on the campus and before high schools and other organizations. It also assists in the presentation of the Messiah, Baccalaureate, and other programs. Membership in the Choir will include attendance at rehearsals for these programs. Three or more rehearsals per week.

Music 180. Elements of Music. **Two hours.**

Staff notation, notes, rests, clefs, scales (various modes), keys, meter, chromatic tones, intervals, chords, cadences, abbreviations, and other symbols; music terms; elements of form; solmization; music writing and simple dictation.

[2]**Music 181.** Harmony I. **Two hours.**

Four voice part writing based on primary triads; the dominant seventh; melodic passing tones and embellishments; keyboard work consisting of scales, triads, etc.

[2]**Music 182.** Harmony II. **Two hours.**

Prerequisite: Music 181.

Continuation of first term harmony; use of secondary triads and inversions in major and minor keys; harmonizations with figured bass and given soprano; original composition in simple forms; keyboard work with cadences and elementary harmonization; secondary chords of the seventh; modulation to nearly related keys; continuation of keyboard and original work.

[2]**Music 191.** Sight Singing and Ear Training I. **Two hours.**

Sight singing of melodic exercises in major and minor keys and in various rhythms; tone group, and verbal and tonal dictation; interval drill.

[2]**Music 192.** Sight Singing and Ear Training II. **Two hours.**

Prerequisite: Music 191.

[1]**Music 225.** (Formerly Music 221.) Choir. **One hour.**

[1]**Music 235.** (Formerly Music 220.) Orchestra. **One-half hour.**

[1]**Music 255.** (Formerly Music 210.) Band. **One-half hour.**

Music 260. Public School Music. **Three hours.**

Such knowledge of music theory and of the principles of notation as is needed by the grade teacher; the aims of music in the grades; the child voice; tone quality; the unmusical singer; rhythmic development; use of the pitch pipe; rote songs; use of the phonograph in teaching songs, use of classroom rhythm and melody instruments, together with increasing ability in music reading on the part of the student.

Music 271. The Enjoyment of Music. **Three hours.**

Not open to music majors.

A course designed for the non-musician to increase his enjoyment and understanding of music through guided listening. A large and representative library of recorded music is available, with ample facilities for student listening. Class preparation for this course will include attendance at the regular college concerts, and certain other musical events on the campus. This course is open to all students who are not music majors.

Music 272. (Formerly Music 271.) Basic Music Literature. **Three hours.**

For music majors. Others only with special permission.

An introduction to the standard concert repertory, through intensive, guided listening. Illustrated by representative works of major composers.

[2]**Music 281.** Harmony III. **Two hours.**

Prerequisite: Music 182.

Extraneous modulation; secondary chords of the seventh; analysis of sonatas of Haydn and Mozart; study of melodic and harmonic development; chords of the Neapolitan sixth; augmented sixth.

[2]**Music 282.** Harmony IV. **Two hours.**

Modulation through use of the diminished seventh chord; analysis and memorizing a Bach choral; writing a sonata-allegro form.

[2]**Music 291.** Sight Singing and Ear Training III. **Two hours.**

Prerequisite: Music 192.

[2]**Music 292.** Sight Singing and Ear Training IV. **Two hours.**

Prerequisite: Music 291.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

[1]**Music 325.** (Formerly Music 321.) Choir. **One hour.**

Music 361. Teaching Repertory, Piano. **One hour.**

This course is designed to widen the student's acquaintance with piano literature, to give him a repertoire of teaching material, a knowledge of teaching procedures. A note book containing notes on methods of attacking technical problems, lists of teaching materials for various grades, etc., is required.

Music 362. Teaching Repertory, Voice. **One hour.**

This course is designed to widen the student's acquaintance with voice literature, to give him a repertoire of teaching material, and a knowledge of teaching procedures. A note book containing notes on methods of attacking technical problems, lists of teaching materials for various grades, etc., is required.

Music 363. Grade Methods and Materials. **Two hours.**

Prerequisite: Music 260 or 180 or the equivalent.

A course in the teaching and supervision of music in the grades, designed primarily for music majors.

Music 364. High School Music. **Two hours.**

A course in the organization, presentation, and administration of high school music, including the junior high school, designed primarily for music majors.

Music 366. Conducting. **Two hours.**

A course in the fundamentals of conducting, with attention to their application to the high school band, orchestra and chorus.

Music 367. Instrumental Techniques. **Two hours.**

A course in the organization and administration of a beginning instrumental program in the elementary school, marching and concert band in the junior and senior high schools; ensembles, rehearsal procedures; programming; and instrument repairs.

Music 371. Music History I. **Three hours.**

Archaic and medieval music; organization of church music, music of the Renaissance and Reformation; music of Elizabethan England; early classical composers; Bach, Handel, Haydn, and Mozart, the early Beethoven.

Music 372. Music History II. **Three hours.**

Romanticism in music; the Romantic opera; development of piano music; the art song; late Romantic and national trends in music; modern music; Impressionism; atonality; Beethoven; Schubert; Schumann; Chopin; Liszt; Wagner; Debussy; Ravel; Hindemith; Stravinsky; Jazz influence in American music, contemporary music.

[2]**Music 380.** Form and Analysis. **Two hours.**

[2]**Music 381.** Counterpoint I. **Two hours.**

[2]**Music 382.** Counterpoint II. **Two hours.**

[2]**Music 383.** Orchestration. **Two hours.**

Music 384. Arranging. **Two hours.**

A beginning course in instrumentation and arranging for band and orchestra.

[1]**Music 425.** (Formerly Music 421.) Choir. **One hour.**

[2]**Music 461.** Band and Orchestra Procedures and Materials I. **Two hours.**

Analysis and organization of various courses of study for instrumental groups of varying abilities; rehearsal routines; training student sectional leaders; duties which may be assumed by students; adaptation of practice quarters to fit acoustical needs; program mechanics for public appearances; publicizing and interpreting music activities; care of equipment; program and teaching materials; consideration of the modified Prescott system and similar courses of study.

[2]**Music 462.** Band and Orchestra Procedures and Materials II. **Two hours.**

Continuation of Music 461.

Music 463. Teaching Piano in Classes. **Two hours.**

Prerequisite: Three years of piano study in college or the equivalent.

[2]**Music 481.** Canon and Fugue I. **Two hours.**

[2]**Music 482.** Canon and Fugue II. **Two hours.**

[2]**Music 483.** Composition. **Two hours.**

GRADUATE DIVISION COURSES

[3]**Music 512.** Piano. **One to four hours.**

Prerequisite: Music 312. Four years or equivalent, as demonstrated by the student's proficiency on the instrument.

This is a continuation on the graduate level, requiring more work of better quality than is required on the undergraduate level.

[3]**Music 513.** Pedagogy of Piano. **Two hours.**

Prerequisite: Same as for Music 512.

This course is designed to enlarge the teaching repertory of the graduate piano student through detailed study of modern teaching methods and techniques.

[3]**Music 522.** Voice. **One to four hours.**

Prerequisite: Music 322.

This course is designed to enlarge the teaching repertoire of the graduate voice student. Emphasis will be placed on cantatas, oratorios, and operas. The student will be given an opportunity to teach voice under supervision.

[2]**Music 523.** Pedagogy of Voice. **Two hours.**

This course is designed to give the student a thorough background in repertoire for voice, and a knowledge and application of teaching procedures. A notebook and term paper are required.

[2]**Music 530.** Problems and Research in the Class Teaching of Strings. **Three hours.**

A graduate course in the problems and methods of the teaching of strings in classes, with consideration of the homogeneous and the heterogeneous class, research in available materials, with attention to their actual success in class teaching.

[2]**Music 531.** Curriculum Practices and Trends in the Teaching of Stringed Instruments. **Three hours.**

A course designed for the graduate music student whose major applied interest is in strings, with attention to the development of teaching procedures for the various instruments particularly as their problems become more divergent.

[3]**Music 532.** Violin. **One to four hours.**

Prerequisite: Music 332. Four years or equivalent, as demonstrated by the student's proficiency on the instrument.

[2]**Music 533.** Special Problems in String Teaching. **One to three hours.**

[3]**Music 536.** Violoncello. **One to four hours.**

[3]**Music 542.** Organ. **One to four hours.**

[3]**Music 552.** Wind Instrument. **One to four hours.**

Continuation of Music 352 on the graduate level, requiring more work than was required on the undergraduate level.

[2]**Music 553.** Pedadogy of Wind Instruments. **Two hours.**

[2]**Music 581.** Acoustics, Construction and Development of Musical Instruments. **Three hours.**

Prerequisite: Music 350-351 or the equivalent.

A graduate research course, investigating the historical development, the construction, the acoustical properties of wind instruments. The student is expected to complete three research projects each semester.

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[1] Consecutive semesters in this course will be required for credit, any two consecutive semesters will earn one hour of credit. Admission to membership upon approval of instructor.

[2] During semesters when Music 181, 182, 281, 282, 381, 382, 383, 481, 482, 483, 191, 192, 291, 292, 461, 462, 533, 553, 581 are not offered as regular classes, they may be taken as individual instruction, under the same arrangements as instruction in Applied Music.

[3] Applied music will be accepted in satisfaction of graduate non-professional subject matter and electives, upon the recommendation of advisor and Dean.

PHYSICAL EDUCATION

(Recommended Curriculum for a major in the area of Health, Physical Education and Recreation with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Physical Education 125	2	Physical Education 190	3
Physical Education 150 (Men) or Physical Education 151 (Women)	2	Science 112	3
Science 111	3	Social Science 101	3
Social Science 100	3	Elective	3
Sociology 100	1	Sociology 101	1
	17		19

Second Year

Biology 225	3	Biology 219	3
English 211	3	English 212	3
Health 202	2	Health 201	3
History 246	3	History 247	3
Military Science 201 (Men) or Elective (Women)	2	Military Science 202 (Men) or Elective (Women)	2
Physical Education 220	2	Physical Education 320	2
*Restricted Elective	3	Psychology 211	3
	18		19

Third Year

Education 315	2	Education 316	2
Health 315	2	Education 384	2
Health 364	2	Health 366	3
Physical Education 325	2	Physical Education 300	2
Physical Education 345 (Women)	2	Physical Education 352 (Women)	2
Physical Education 361 (Women)	2	Physical Education 368 (Men)	1
Physical Education 367 (Men)	1	Elective	6
Elective in Coaching (Men)	4		
*Restrictive Elective	3		
	16 (Men) or 15 (Women)		16 or 17

Fourth Year

Health 410	3	Education 364	4
Physical Education 400	3	Education 463	10
Physical Education 401	3	Physical Education 366	2
Physical Education 468	2		
Physical Education 475	3		
Elective in Coaching (Men)	2		
Elective	2 or 4		
	18		16

*Restrictive Elective will require that the student select six hours from the following: Art 200, Art 390, Art 391, six hours of Foreign Language, History 498, History 499, Music 271, Music 371, Music 372.

PHYSICAL EDUCATION

(Recommended Curriculum for a major in Physical Education with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Physical Education 125	2	Physical Education 190	3
Science 111	3	Science 112	3
Social Science 100	3	Social Science 101	3
Sociology 100	1	Elective	3
Elective	3	Sociology 101	1
	18		19

Second Year

Biology 225	3	Biology 219	3
English 211	3	English 212	3
History 246	3	Health 201	3
Military Science 201 (Men) or Elective (Women)	2	History 247	3
Physical Education 220	2	Military Science 202 (Men) or Elective	2
*Restrictive Elective	3	Psychology 211	3
Elective	2		
	18		17

Third Year

Education 315	2	Education 316	2
Physical Education 320 or 325	2	Education 384	2
Physical Education 345 (Women)	2	Physical Education 300	2
Physical Education 361 (Women)	2	Physical Education 352 (Women)	2
Physical Education 367 (Men)	1	Physical Education 368 (Men)	1
Elective in Coaching (Men)	2	Elective	8 or 9
*Restrictive Elective	3		
Elective	5 or 6		
	16		16

Fourth Year

Physical Education 468	2	Education 364	4
Physical Education 475	3	Education 463	10
Elective in Coaching (Men)	2	Physical Education 366	2
Elective	10 or 12		
	17		16

*Restrictive Elective will require that the student select six hours from the following: Art 200, Art 390, Art 391, six hours of Foreign Language, History 498, History 499, Music 271, Music 371, Music 372.

Recommended Curriculum for a second major in Physical Education

Physical Education 125, 190, 220, 300, 320 or 325, 366, 468, and 475.

Additional Physical Education courses for men: 367, 368, four hours elective to be taken from 261, 360, 362, or 420.

Additional Physical Education courses for women: 345, 352, and 361.

Recommended Curriculum for a minor in Physical Education

Students may minor in Physical Education by taking the following courses: Physical Education 125, 190, 300, 366, 401, and 468.

Additional Physical Education courses for men: 367, 368, two hours elective to be taken from 261, 360, 362, or 420.

Additional Physical Education courses for women: Four elective hours in Physical Education.

LOWER DIVISION COURSES

Physical Education 115. Fundamental Physical Education Activities. **One hour.**

This course is designed to meet the needs of the average college student. The students will be assigned to required physical education class sections in accordance with their abilities and needs. Individuals who are inferior in physical fitness will be assigned to sections with special emphasis on fitness and conditioning. A text will be required and grades will be determined by examination over rules and skills in the various activities.

This required physical education program is designed to fulfill the following objectives:

1. To provide the college student with a program of regulated and supervised physical activity.
2. To develop recreational skills which will serve as leisure time pursuits today and in the future.
3. To develop an intelligent attitude toward the need for and benefits of well-regulated physical activity.

The following activities will be provided in Physical Education 115 (Men):

Beginning swimming

Fundamentals of golf, handball, volleyball, tennis, badminton, touch football, and softball

Basic physical conditioning activities

The following activities will be provided in Physical Education 115 (Women):

Beginning swimming

Basic folk rhythms and modern dance

Conditioning activities

Fundamental skills of movement

Fundamentals of field hockey, volleyball, aerial tennis, badminton, and varied recreational games

Physical Education 116. Fundamental Physical Education Activities. **One hour.**

This course is a continuation of Physical Education 115.

The following activities will be provided in Physical Education 116 (Men):

Intermediate swimming

Basic gymnastics and conditioning activities

Skill techniques in golf, handball, volleyball, tennis, badminton, and softball

The following activities will be provided in Physical Education 116 (Women):

Intermediate swimming

Folk rhythms and modern dance

Conditioning activities

Fundamental skills of movement

Fundamentals of basketball, tennis, softball and varied recreational games

Physical Education 125. (Formerly Physical Education 125 and 126.) Introduction to Physical Education. **Two hours.**

The place of physical education in our general education program. This course will also present the history and principles of physical education.

Physical Education 150. (Formerly Physical Education 350.) Scouting and Clubcraft. (Men) **Two hours.**

History and principles of scouting; practical scoutcraft and clubcraft. The scoutmaster's certificate is awarded to those completing the course.

Physical Education 151. (Formerly Physical Education 351.) Camping and Clubcraft. (Women) **Two hours.**

Theory and basis of camping, organization in camping, counselor training, skills for camping, leadership in camping activities. A cook-out and an overnight are required for completion of the course. Two hours lecture and laboratory to be arranged.

Physical Education 190. (Formerly Physical Education 210 and 211.) Skills in Physical Education Activities. **Three hours.**

Students will study and practice the various skills required for participation in a variety of individual and team sports.

Physical Education 220. (Formerly Physical Education 20.) Physical Education in the Elementary School. **Two hours.**

Theory and practice in the conduct of physical education for children in the elementary grades. **Four laboratory hours.**

Physical Education 261. (Formerly Physical Education 24 and 265.) Coaching Baseball. **Two hours.**

Theory and practice in coaching the fundamentals of baseball; team offense and defense.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Physical Education 300. (Formerly Physical Education 30.) Folk and National Dancing. **Two hours.**

Traditional and social dances of the United States and other countries.

Physical Education 320. (Formerly Physical Education 31.) Kinesiology. **Two hours.**

Fundamentals of body mechanics; movements of the human body.

Physical Education 325. (Formerly Physical Education 32.) Physiology of Activity. **Two hours.**

Effects of physical education activities on the various systems of the human body.

Physical Education 340. Advanced Swimming and Water Safety. **Two hours.**

Prerequisite: To have passed the Red Cross Beginners and Intermediate swimming tests or their equivalent. A screening test will be given those who have not had the opportunity to take Red Cross tests to determine if they are eligible to take the class.

Emphasis on advanced skills in swimming and water safety in which the Red Cross Instructors Course in Water Safety will be taught.

Physical Education 345. (Formerly Physical Education 35a, 35b, and 245a, 245b.) Modern Dance. **Two hours.**

Modern dance and the fundamentals of movement and rhythm; dance composition.

Physical Education 352. (Formerly Physical Education 252.) Basketball and Softball for Women. **Two hours.**

Prerequisite: A student must have one semester of experience in these sports in Women's Recreation Association.

Theory, technique, and practice in teaching basketball and softball.

Physical Education 360. (Formerly Physical Education 37 and 260.) Coaching Basketball. **Two hours.**

Theory and practice in coaching the fundamentals of basketball; team offense and defense.

Physical Education 361. (Formerly Physical Education 38.) Field Hockey and Volleyball for Women. **Two hours.**

Prerequisite: A student must have one semester of experience in these sports in Women's Recreation Association.

Theory, technique and practice in teaching field hockey and volleyball.

Physical Education 362. (Formerly Physical Education 39 and 265.) Coaching Track and Field. **Two hours.**

Theory and practice in coaching fundamentals involved in track and field.

Physical Education 366. (Formerly Physical Education 36.) Materials and Methods for Teaching Physical Education. **Two hours.**

Theories of play; study of existing play programs; correlation with other subjects; games, skills, lesson planning and observation.

Physical Education 367. Basic Tumbling and Apparatus Activities. **One hour.**

Participation in tumbling exercises and stunts upon the horizontal bar, parallel bars, trampoline, long horse, and horse with pommels, for the prospective tumbling and apparatus teacher. Safety methods, squad procedures, and pupil leadership are stressed.

Physical Education 368. Advanced Tumbling and Apparatus Activities. **One hour.**

A continuation of Physical Education 367 with the emphasis on series exercises on the mats, trampoline, parallel bars, horse with pommels, and horizontal bar.

Physical Education 370. Camp Administration. **Two hours.**

The responsibilities of a camp director concerning program, leadership, health and sanitation and related problems in a modern camping program. Field trips will be taken to camping areas.

Physical Education 400. Organization of School Recreation Activities. **Three hours.**

Students will study problems related to directing recreational activities within a school system. Two hours of laboratory will be assigned each student so they will receive practical experience in directing a school recreation program.

Physical Education 401. Community Recreation. **Three hours.**

The problems of leisure; vacation time for children; adult recreation; content of school programs for leisure education; dramatics; reading; music, art, and handcrafts; nature study; extracurricular activities.

Physical Education 420. (Formerly Physical Education 42 and 260.) Coaching Football. **Two hours.**

Theory and practice in coaching the fundamentals of football; team offense and defense.

Physical Education 468. (Formerly Physical Education 46.) Administration and Organization of Physical Education. **Two hours.**

Policies and procedures of administration on the elementary and secondary school level. Special emphasis on construction and care of facilities, equipment, and supervision of personnel.

Physical Education 475. (Formerly Health 475.) Tests and Measurements in Physical Education. **Three hours.**

The students become familiar with the various tests and measurements in this field. They learn how to give and score the tests, evaluate and use the results obtained in the testing program.

GRADUATE DIVISION COURSES

Physical Education 550. Curriculum and Facilities in Physical Education. **Three hours.**

Students will study problems related to school construction and program planning in physical education. Each student will complete a project on some phase of physical education curriculum or facility.

Physical Education 562. Adapted Physical Education. **Three hours.**

Basic principles necessary in developing and conducting a physical education program for handicapped students.

Physical Education 569. Organization and Administration of Athletics. **Three hours.**

This course deals with the organization of high school and college athletics with reference to national, state, and local control. It considers staff, program, budget, health and safety, insurance, facilities, and other phases of administration.

Physical Education 580. Interpretation of Data in Physical Education. **Three hours.**

Methods and techniques in statistics and their interpretation as related to physical education activities will be studied. Students will be assigned statistical problems with physical education data.

Physical Education 590. Research Techniques in Physical Education. **Three hours.**

Proper techniques of research will be studied in this course. Students will be introduced to the horizontal analysis technique of outlining a study. A research project will be expected of each student.

Physical Education 591. Independent Problems in Physical Education. **Three hours.**

The student will solve an independent problem in physical education. The solution of this problem will be made by using proper research techniques and through scheduled conferences with an assigned member of the physical education staff.

PHYSICS

(Recommended curriculum for a major in Physics with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Mathematics 107	3	Mathematics 102	2
Military Science 101 (Men) or Elective (Women)	2	Mathematics 113	3
Physical Education 115	1	Military Science 102 (Men) or Elective (Women)	2
Physics 131	5	Physical Education 116	1
Social Science 100	3	Physics 107	1
Sociology 100	1	Social Science 101	3
		Sociology 101	1
	18		16

Second Year

English 211	3	English 212	3
Mathematics 232	3	Mathematics 251	5
Military Science 201 (Men) or Elective (Women)	2	Military Science 202 (Men) or Elective (Women)	2
Physics 201	6	Physics 202	6
Elective	3	Psychology 211	3
	17		19

Third Year

Chemistry 111	4	Chemistry 112	5
Education 315	2	Education 316	2
History 246	3	Health 201	3
Mathematics 352	3	History 247	3
Physics Elective	5	Physics Elective	6
	17		19

Fourth Year

Education 384	2	Education 364	6
Physics Elective	6	Education 463	10
*Restrictive Elective	6		
Elective	3		
	17		16

Recommended Curriculum for a Second Major in Physics (with right of teaching certificate)

A student with a first major in some other department may take the following courses for a second major in Physics: Physics 201, 202, or equivalent (we interpret Physics 131, 132 and 203 as equivalent), and 14 additional hours of Physics numbered above 202 as directed by the head of the Physics Department. Also Chemistry 111 and Chemistry 112 are required.

All majors in Physics, whether first or second, must have their curriculum contracts checked with the Head of the Physics Department, and must show an interest in the profession of Physics over and above the mere taking of courses.

*Restrictive Elective will require that the student select six hours from the following: Art 200, Art 390, Art 391, six hours of Foreign Language, History 498, History 499, Music 271, Music 371, Music 372.

Recommended Curriculum for a Minor in Physics
(with right of teaching certificate)

A student with a major and a minor in other departments may take the following courses for a minor in Physics: Physics 201, 202, or equivalent, and 8 hours of elective as directed by the head of the Physics Department, in addition to the mathematics courses necessary for the Physics courses. In addition 9 hours of Chemistry are recommended.

PHYSICS

(Recommended curriculum for a major in Physics without right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
English 101	3	English 102	3
Mathematics 107	3	Mathematics 108	2
Military Science 101 (Men) or Elective (Women)	2	Mathematics 113	3
Physical Education 115	1	Military Science 102 (Men) or Elective (Women)	2
Physics 131	5	Physical Education 116	1
Social Science 100	3	Physics 107	1
Sociology 100	1	Social Science 101	3
		Sociology 101	1
	18		16

Second Year

English 211	3	English 212	3
Mathematics 232	3	Mathematics 251	5
Military Science 201 (Men) or Elective (Women)	2	Military Science 202 (Men) or Elective (Women)	2
Physics 201	6	Physics 202	6
Elective	3		
	17		16

Third Year

Chemistry 111	4	Chemistry 112	5
Foreign Language	3	Foreign Language	3
History 246	3	History 247	3
Mathematics 352	3	Physics Elective	5
Physics Elective	5	Elective	3
	18		19

Fourth Year

Physics Elective	9	Physics Elective	9
Elective	9	Elective	9
	18		18

Recommended Curriculum for a Second Major in Physics
(without right of teaching certificate)

A student with a first major in some other department may take the following courses for a second major in Physics: Physics 201, 202, or equivalent (we interpret Physics 131, 132 and 203 as equivalent), and 27 additional hours of Physics numbered above 202 as directed by the Head of the Physics Department. Also Chemistry 111 and 112 are required.

All majors in Physics, whether first or second, must have their curriculum contracts checked with the Head of the Physics Department, and must show an interest in the profession of Physics over and above the mere taking of courses.

PHYSICS

LOWER DIVISION COURSES

Physics 107. Slide Rule Theory and Practice. **One hour.**

Designed to aid the student in making mathematical computations easily and rapidly.

Physics 131. Elementary Physics. **Five hours.**

Prerequisite: One unit each of high school algebra and plane geometry.

The fundamental ideas of mechanics; molecular physics; heat. Three lecture and four laboratory hours.

Physics 132. Elementary Physics. **Five hours.**

Prerequisite: Physics 131.

Electricity; magnetism; wave motion; sound; light. Three lecture and four laboratory hours.

Physics 201. Mechanics, Molecular Physics and Heat. **Six hours.**

Prerequisite: Trigonometry.

Falling bodies; Newton's laws of motion and applications to practical problems; curvilinear motion; composition and resolution of forces; the laws of equilibrium and their application to various problems; work and energy; machines; momentum; elasticity; simple harmonic motion; hydrodynamics; heat and molecular physics including thermometry, pressure, expansion of solids, liquids, and gases; modern radiation theory. Four lecture and four laboratory hours.

Physics 202. Electricity, Magnetism, Wave Motion, Sound and Light. **Six hours.**

Prerequisite: Physics 201.

Electrostatics; the nature of electricity; magnetism; Ohm's law; measurement of electrical quantities; sources of electrical energy; Lenz's law; inductance and capacity; alternating currents; electric waves and radio; theories and problems in sound and light. Four lecture and four laboratory hours.

Physics 203. Problems in General Physics. **Two hours.**

Prerequisite: Physics 131, 132, or equivalent.

Solution of approximately 450 problems selected from topics in an advanced general Physics text. Two recitation hours.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Physics 300. Modern Physics. **Three hours.**

Prerequisite: Physics 202 or equivalent, Mathematics 352, or registration in Mathematics 352.

The electron, positively charged particles, electric discharge in gases, x-rays and crystal structure, waves and particles, quantum theory, relativity, hydrogen atom and spectra, molecular motion, quanta and spectra.

Physics 302. Physical Optics. **Three hours.**

Prerequisite: Physics 201 and 202, or equivalent.

Wave motion; reflection and refraction; further study of lenses; the telescope; dispersion; facts concerning the spectrum; interference; diffraction; plane polarized light; the electromagnetic theory of light; the quantum theory; origin of spectra. Three recitation hours.

Physics 303. Heat. **Three hours.**
Prerequisite: Physics 201 and 202, or equivalent.
Review of theories and discoveries; thermometry; specific heats; thermal expansion; transfer of heat; laws of thermodynamics; radiation; change of state; continuity of state; production of low temperatures; production of high temperatures. **Three recitation hours.**

Physics 304. Advanced Electricity and Magnetism. **Three hours.**
Prerequisite: Physics 201 and 202, or equivalent, and Mathematics 352.
Magnetism; the electric current; electrostatics; electrolysis; thermoelectricity; electromagnetics; alternating currents; electromagnetic radiation; conduction in gases; electrons and atoms. Three recitation hours.

Physics 305. Advanced Electricity and Magnetism Laboratory. **Two hours.**
Prerequisite: Physics 132 or 202, or equivalent.
Calibration and use of advanced electrical instruments; precision measurements of inductance, capacitance, resistance, and voltage; basic experiments on vacuum tubes; use of cathode ray oscilloscope. Four laboratory hours per week.

Physics 306. Advanced General Laboratory. **Two hours.**
Prerequisite: Physics 132 or 202, or equivalent.
Largely for students majoring or minoring in physics. Consists of the performance and reporting of a carefully selected group of experiments considerably more advanced than in the elementary laboratories. The experiments will spread across the various branches of physics and cover ideas and techniques considered essential to the training of a well-rounded physicist. Four laboratory hours per week.

Physics 307. Electronics. **Three hours.**
Prerequisite: Physics 202 or equivalent.
Theory of thermionic tubes and solid state devices; amplifier circuit principles; photosensitive devices; rectifiers; principles of radio, radar and television. Three recitation hours; several laboratory experiments.

Physics 310. Special Problems in Physics. **One to three hours.**
Prerequisite: Physics 202 or equivalent.
Working out of special laboratory experiments; development of new equipment; or solution of special mathematical problems related to physics.

Physics 311. Special Problems in Physics. **One to three hours.**
This course is a continuation of Physics 310.

Physics 315. Radioactivity and Nuclear Physics. **Three hours.**
Prerequisite: Physics 300, or equivalent.
Natural radioactivity; radiation detectors; induced radioactivity; Alpha, Beta, and Gamma rays; neutrons; other particles; cosmic radiation; nuclear fission; applications of radioactivity. Three recitations per week. Some experiments.

Physics 360. Topic in Physics for Teachers. **Four hours.**
Topics from general physics selected to aid the high school teacher of physics and general science to teach with greater confidence. Lecture three hours; laboratory and discussion two hours.

Physics 401. Physics for High School Teachers I. **Three hours.**
Prerequisite: One year of college physics.
Topics from general physics designed to assure that the teacher is prepared to teach high school physics with ease and confidence. Topics from advanced physics and modern physics designed to give the teacher that extra knowledge which will enable him to teach with a greater understanding, and if possible to inspire the students. Two hours lecture and two hours laboratory and discussion.

Physics 402. Physics for High School Teachers II. **Three hours.**

A continuation of Physics 401.

Physics 455. (Also listed as Mathematics 455.) Theoretical Mechanics. **Three hours.**

May be taken either in the Mathematics or Physics Department.

Prerequisite: Mathematics 352 and Physics 201 or 202, or equivalent.

Fundamental concepts of mechanics; rectilinear motion of a particle; curvilinear motion; particle dynamics from the point of view of energy; statics of a particle; statics of a rigid body; dynamics of a rigid body; constrained motion; oscillations; motion of aggregates of particles; deformable bodies and wave motion; mechanics of fluids.

Physics 456. (Also listed as Mathematics 456.) Vector Analysis and Its Physical Application. **Three hours.**

May be taken either in the Mathematics or Physics Department.

Prerequisite: Mathematics 352 and Physics 202, or equivalent.

The algebra and calculus of vectors. Applications of vector analysis to solution of problems in geometry and physics.

POLITICAL SCIENCE

A student may major in Political Science (professional or non-professional) by taking a minimum of 30 semester hours. The following courses are required: Political Science 101, Political Science 102 or Political Science 103, Political Science 201, and Political Science 202. At least fifteen of the thirty hours must be taken in upper division courses and three of these hours must be in political theory. A Political Science major is urged to take twelve semester hours in a foreign language if he begins the language in college, or six semester hours if he continues the language at the intermediate level.

A student may minor in Political Science by taking a minimum of 18 semester hours. The following courses are required: Political Science 101, Political Science 201, and Political Science 202. The remaining nine hours must be in upper division courses.

LOWER DIVISION COURSES

(Open to Freshman and Sophomore Students)

Political Science 101. (Formerly Government 211.) Principles of American Government. **Three hours.**

The principles and basic political institutions of the American system of government at the national, state, and local levels.

Political Science 102. Functions of American Government. **Three hours.**

Prerequisite: Political Science 101.

The major functions performed by national, state, and local governments in such areas as finance, foreign affairs, national defense, business, labor, agriculture, conservation, welfare, education, and transportation.

Political Science 103. (Formerly Government 212.) American State and Local Government. **Three hours.**

Prerequisite: Political Science 101.

Study of the institutions and processes of government of the fifty states and of the government of cities and counties.

Political Science 201. (Formerly Government 452.) Introduction to Foreign Governments. **Three hours.**

A survey of the constitutional and political characteristics of Great Britain, France, Germany, and the Soviet Union to introduce the student to the diversity of constitutional forms and political forces.

Political Science 202. (Formerly Government 413.) International Politics. **Three hours.**

An introductory survey of basic principles and forces in international politics. Emphasis is placed on the modern state system, nationalism, national power, balance of power, international economics, diplomacy, and world organization.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Political Science 310. American Politics and Parties. **Three hours.**

Prerequisite: Political Science 101.

A study of pressure groups and political parties in the United States. Covers the social composition, organization, finance, and nominating processes of political parties and analyzes voting behavior.

Political Science 320. (Formerly Government 422.) Public Administration. **Three hours.**

Prerequisite: Political Science 101 and either 102 or 103.

Covers such topics as: the functions of a governmental executive, governmental organization, area and administration, personnel management, fiscal management, public relations, and responsibility and control. Designed for those who are interested in the government services as a career and for students of general political science.

Political Science 362. (Formerly Government 362.) Government of Kentucky. **Three hours.**

Designed for those students interested in how Kentucky is governed. Covers the political setting, popular control of government, constitution, legislature, governor, courts, local government, finance, functions of government, and relation to national government.

Political Science 401. (Formerly Government 351). British Government and the Commonwealth. **Three hours.**

Prerequisite: Political Science 201 and either six additional hours of political science or six hours of English history.

A study of the constitutional system and political institutions of Great Britain. Attention is given to the historical, geographical, social, and economic factors which influence the political system. The nature and development of the Commonwealth and the significance of the Commonwealth for Great Britain are examined.

Political Science 410. American Foreign Policy. **Three hours.**

Prerequisite: Political Science 101 and 202 and either three additional hours of political science or six hours of American History.

A study of the processes and content of United States foreign policy.

Political Science 421. (Formerly Government 421.) American Constitutional Law. **Three hours.**

Prerequisite: Political Science 101 and six additional hours of political science.

A study of the major provisions of the American constitution and the way in which they have been interpreted by the Supreme Court. Supreme Court opinions are read and analyzed.

Political Science 455. (Formerly Government 455.) History of Political Theory I. **Three hours.**

Prerequisite: Six hours in political science and six hours in history or economics.

A survey of political thought from the time of Plato to the Reformation.

Political Science 456. (Formerly Government 456.) History of Political Theory II. **Three hours.**

Prerequisite: Same as for Political Science 455.

A survey of political thought from the Sixteenth Century to the present.

PSYCHOLOGY

Psychology 211. General Psychology. **Three hours.**

Preview of psychology; factors in development; motivation; emotions; learning; the management of learning; thinking; personality and individual differences; intelligence; vocational and employment psychology; getting along with people; psychology and social problems.

Psychology 212. Applied Psychology. **Three hours.**

A study of psychological factors in occupational choices and of applications in fields such as advertising, industry, law, medicine, and personnel work.

Psychology 308. Abnormal Psychology. **Three hours.**

A study of the nature, causes, and prevalence of disorders of sensory and motor activities, memory, emotions, intelligence, and personality.

GRADUATE DIVISION COURSES

Psychology 500. Social Psychology. **Three hours.**

Prerequisite: Psychology 211.

A study of social phenomena in terms of the original and acquired reaction systems of the individual. Special consideration given to group behavior, role, status, attitudes, prejudice, crowds, mob behavior, propaganda, and nationalism.

SCIENCE

(Recommended curriculum for the training of teachers of the Sciences with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
Chemistry 111	4	Chemistry 112	5
English 101	3	English 102	3
Mathematics 107	3	Mathematics 113	3
Military Science 101 (Men) or Elective (Women)	2	Military Science 102 (Men) or Elective (Women)	2
Physical Education 115	1	Physical Education 116	1
Social Science 100	3	Social Science 101	3
Sociology 100	1	Sociology 101	1
	17		18

Second Year

Biology 131 or 141	3 or 4	Biology 132 or 142	3 or 4
English 211	3	English 212	3
Military Science 201 (Men) or Elective (Women)	2	Health 201	3
*Physics 201	6	Military Science 202 (Men) or Elective (Women)	2
Psychology 211	3	*Physics 202	6
	17 or 18		17 or 18

Third Year

Art 200	3	Biology 132 or 142	3 or 4
Biology 131 or 141	3 or 4	Education 316	2
Education 315	2	History 247	3
History 246	3	Music 271	3
Science Elective	6 or 7	Science Elective	6 or 7
	17 or 18		17 or 18

Fourth Year

Education 384	2	Education 364	6
Geology 301	3	Education 463	10
Science Elective	8		
Elective	3 or 4		
	16 or 17		16

The student must take at least five additional hours each in Biology, Chemistry, and Physics. Electives must be so chosen as to include at least 18 hours of 300 and 400 courses.

*Physics 131, 132, and 203 may be substituted for Physics 201 and 202.

NONSPECIALIZED SCIENCE

LOWER DIVISION COURSES

(Science 109 and 110 are not open to students who have completed laboratory courses in Physics and Chemistry. Science 111 and 112 are not open to students who have completed laboratory courses in biological sciences.)

Science 109. Physical Science I. **Three hours.**

(Students who have had courses in high school or college physics should not take this course.)

A course designed to give to the students whose primary interests are in other fields an understanding of some basic scientific problems and their importance in the scientific age. Topics on force, energy, heat, sound, light, electricity, magnetism, electrons and nuclear phenomena give the student a broad view of the universe. Two lecture and two laboratory hours.

Science 110. Physical Science II. **Three hours.**

The purpose of this course is to present some of the basic principles of chemistry and to show how chemistry affects man in both the economic and cultural areas of his life and activities. Two lecture and two laboratory hours.

Science 111. Biological Science I. **Three hours.**

The principles of biology as they apply to man; the maintenance, adaptation and perpetuation of his body; the history and development of man and his races; interrelationships of man and other organisms; effect of man and other organisms on community life. Two lecture and two laboratory hours.

Science 112. Biological Science II. **Three hours.**

Prerequisite: Science 111.

A continuation of Science 111. Two lecture and two laboratory hours.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Science 310. History of Science. **Three hours.**

The development of scientific concepts through the ages; contribution of science to civilization; relations of scientific developments and various philosophies; biographical sketches. Three lecture hours.

Science 351. Science for Elementary Teachers. **Three hours.**

Prerequisite: Science 109, 110, 111, 112, or equivalent.

Concepts of science, experiments and demonstrations useful to the teaching of science from Kindergarten through grade 6. Five discussion-laboratory hours.

Science 362. Nature Study. **Three hours.**

Laboratory methods in teaching nature study and general science in grades one to six. One lecture and four laboratory hours.

Science 471. Methods in Biology. **Two hours.**

Prerequisite: A major or minor in Biology.

Required of applicants for student teaching in Biology.

The sources, preparation, culture and use of biological materials for instruction in high schools; the construction, care and use of high school biological equipment; conduction of field trips. Four laboratory hours.

GRADUATE DIVISION COURSES

Science 500. The Impact of Science on Society. **Three hours.**

The effects of various scientific theories and discoveries on man's thinking and modes of living. Some of the works of such men as Aristotle, Copernicus, Kepler, Galileo, Newton, Stahl, Lavoisier, Black, Faraday, Joule, Darwin, Mendel, Pasteur, Jeans, The Curies, Planck, Einstein, will be studied. The greater emphasis will be placed on the 19th and 20th centuries.

SOCIAL SCIENCE AREA

(Recommended curriculum for a major in the Area of Social Science with right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
Anthropology 100	3	Art 200	3
English 101	3	English 102	3
Geography 101	3	Military Science 102 (Men) or Elective (Women)	2
Military Science 101 (Men) or Elective (Women)	2	Physical Education 116	1
Physical Education 115	1	Psychology 211	3
Science 111	3	Science 112	3
Sociology 100	1	Social Science 101	3
		Sociology 101	1
	16		19

Second Year

English 211	3	English 212	3
History 202	3	History 203	3
History 246	3	History 247	3
Military Science 201 (Men) or Elective (Women)	2	Military Science 202 (Men) or Elective (Women)	2
Political Science 101	3	Science 110	3
Science 109	3	Sociology 331	3
	17		17

Third Year

Economics 230	3	Economics Elective	3
Education 315	2	Education 316	2
History 340	3	European History Elective	3
History Elective	6	History 498	3
Sociology 332	3	Music 271	3
		Political Science Elective	3
	17		17

Fourth Year

Education 384	2	Education 364	6
Geography Elective	3	Education 463	10
Health 201	3		
History 448	3		
History 499	3		
History Elective	3		
	17		16

SOCIAL SCIENCE AREA

(Recommended curriculum for a major in the area of Social Science without right of teaching certificate)

First Year

First Semester	Hours	Second Semester	Hours
Anthropology 100	3	Art 200	3
English 101	3	English 102	3
Geography 101	3	Military Science 102 (Men) or Elective (Women)	2
Military Science 101 (Men) or Elective (Women)	2	Physical Education 116	1
Physical Education 115	1	Science 112	3
Science 111	3	Social Science 101	3
Sociology 100	1	Elective	3
		Sociology 101	1
	16		19

Second Year

English 211	3	English 212	3
History 202	3	History 203	3
History 246	3	History 247	3
Military Science 201 (Men) or Elective (Women)	2	Military Science 202 (Men) or Elective (Women)	2
Political Science 101	3	Science 110	3
Science 109	3	Sociology 331	3
	17		17

Third Year

Economics 230	3	Economics Elective	3
English Elective	3	European History Elective	3
History 340	3	History 498	3
History Elective	6	Music 271	3
Sociology 332	3	Political Science Elective	3
		Elective	2
	18		18

Fourth Year

Geography Elective	3	Elective	16
Health 201	3		
History 448	3		
History 499	3		
History Elective	3		
Elective	2		
	17		16

GENERAL SOCIAL SCIENCE

Social Science 100. Contemporary Social Problems. **Three hours.**
Biological, psychological, and geographic factors in human development; culture; population; problems of the family; the nature and development of education; the organization and role of modern education; recreational institutions; religious institutions; health institutions; aesthetic institutions; economic institutions and problems; the problems of government; alternative, economic and governmental systems; international relations.

Social Science 101. Contemporary Social Problems. **Three hours.**
A continuation of Social Science 100.

SOCIOLOGY AND ANTHROPOLOGY

LOWER DIVISION COURSES

Anthropology 100. Culture and Civilization. **Three hours.**
The scientific approach to human society; nature of culture; nature of civilization; man as a social animal; the dynamics of culture; major factors in the emergence of primitive culture; nature of primitive culture; outline of the main civilizations of the world.

Sociology 100. (Formerly Sociology 10.) College Orientation. **One hour.**
The college and its functions; living in college; the development of efficient study habits; personal and family responsibilities; social relationships; vocational guidance.

Sociology 101. College Orientation. **One hour.**
A continuation of Sociology 100.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Sociology 331. (Formerly Sociology 30.) Principles of Sociology. **Three hours.**
Field of sociology and its relation to other social science courses; relation of living conditions to life; the problem of finding and using leaders; social achievements; man's relation to his institutions and his responsibility for them; the family; religion; and morals.

Sociology 332. (Formerly Sociology 31.) Current Social Problems. **Three hours.**
The social and institutional impact of industrialism and secularism; economic, social, and biological problems in modern society; social wreckage.

SPANISH

A student may major in Spanish by taking a minimum of 24 hours in Spanish.

A student with a major and a minor in other departments may take 18 semester hours for a minor in Spanish.

LOWER DIVISION COURSES

Spanish 101. (Formerly Spanish 11). Elementary Spanish. **Three hours.**
Grammar; pronunciation; reading of easy Spanish.

Spanish 102. (Formerly Spanish 12.) Elementary Spanish. **Three hours.**
Prerequisite: Spanish 101 or one unit of high school Spanish.
A continuation of Spanish 101.

Spanish 201. (Formerly Spanish 21.) Intermediate Spanish. **Three hours.**
Prerequisite: Spanish 101 and 102, or two units of high school Spanish.
Review of grammar. Selected materials about Spain and Latin America. Representative short stories of authors throughout the world using the Spanish medium.

Spanish 202. (Formerly Spanish 22.) Intermediate Spanish. **Three hours.**
Prerequisite: Spanish 201 or three units of high school Spanish.
Continuation of Spanish 201.

UPPER DIVISION COURSES

(Open to Junior, Senior, and Graduate Students)

Spanish 301. (Formerly Spanish 31.) The Spanish Novel. **Three hours.**
Prerequisite: Two years of college Spanish or the equivalent.
Reading of selected novels of the Golden Age and of the eighteenth century.

Spanish 302. (Formerly Spanish 32.) The Spanish Novel. **Three hours.**
Prerequisite: Spanish 301 or its equivalent.
Novels of the nineteenth and twentieth centuries.

Spanish 401. (Formerly Spanish 41.) Spanish Drama and Poetry. **Three hours.**
Prerequisite: Two years of college Spanish or the equivalent.
Selected Spanish plays and poetry prior to the nineteenth century.

Spanish 402. (Formerly Spanish 42.) Spanish Drama and Poetry. **Three hours.**
Prerequisite: Spanish 401 or its equivalent.
Spanish drama and poetry of the nineteenth and twentieth centuries.

PART SIX

Official Directory

Personnel

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1962-63

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FACULTY

ROBERT R. MARTIN, A.B., A.M., Ed.D. — **President**

A.B., Eastern Kentucky State College; A.M., University of Kentucky; Ed.D., Teachers College, Columbia University. At Eastern since 1960.

KERNEY M. ADAMS, A.B., A.M. — **Professor of History**

Diploma, Eastern Kentucky State Normal School; A.B., University of Kentucky; A.M., Cornell University; additional graduate work, Harvard University. At Eastern since 1928.

CHARLES E. AEBERSOLD, B.S., M.S., Ed.D. — **Assistant Professor of Education**

B.S., Madison College; M.S., Ed.D., Indiana University; additional graduate work, University of Louisville. At Eastern since 1959.

AIMEE H. ALEXANDER, A.B., M.A. — **Instructor of English**

A.B., Transylvania College; M.A., University of Kentucky; additional graduate work, Columbia University, George Peabody College for Teachers. At Eastern since 1961.

ANNIE ALVIS, B.S., A.M. — **Assistant Professor of Elementary Education; Supervising Teacher, Laboratory School**

B.S., State Teachers College, Farmville, Virginia; A.M., Teachers College, Columbia University; graduate student, University of Chicago. At Eastern since 1932.

CHARLES F. AMBROSE, A.B., M.A., Ed.D. — **Associate Professor of Education**

A.B., Transylvania College; Student, University of Louisville, Indiana University; M.A., Ed.D., University of Kentucky. At Eastern since 1961.

MARGARET E. ANKENEY, B.A., M.A., Ed.D. — **Professor of Education**

B.A., M.A., Colorado State College of Education; Ed.D., Teachers College, Columbia University. At Eastern since 1961.

T. L. ARTERBERRY, A.B., M.A. — **Assistant Professor of Education**

A.B., M.A., University of Kentucky. At Eastern since 1959.

JAMES E. BAECHTOLD, B.S., M.A. — **Associate Professor of Physical Education Head Basketball Coach**

B.S., Eastern Kentucky State College; M.A., Indiana University. At Eastern since 1958.

LORRAYNE Y. BAIRD, A.B., M.A. — **Assistant Professor of English**

Student, Berry College, Lenoir-Rhyne College, Duke University; A.B., Catawba College; M.A., Appalachian State Teachers College; additional graduate work, University of Kentucky. At Eastern since 1960.

LANDIS D. BAKER, B.Mus., M.F.A. — **Assistant Professor of Music**

B.Mus., Heidelberg College; M.F.A., Ohio University; additional graduate work, University of Illinois. At Eastern since 1954.

MARY C. BALDWIN, A.B. — **Assistant Professor of English**

Student, Columbia University; A.B., Eastern Kentucky State College; graduate student, University of Kentucky. At Eastern since 1958.

DIXON A. BARR, B.S. in Ed., M.A. — **Assistant Professor of Education**
Director of the Laboratory School

B.S. in Ed., Ball State Teachers College; M.A., Teachers College, Columbia University; additional graduate work, Teachers College, Columbia University. At Eastern since 1961.

CLIFTON A. BASYE, B.S., M.S. — **Assistant Professor of Physics**

B.S., Morehead State College; M.S., University of Kentucky. At Eastern since 1948.

WILLIAM H. BERGE, A.B., M.A. — **Assistant Professor of History**

A.B., Eastern Kentucky State College; M.A., Vanderbilt University; additional graduate work, Vanderbilt University. At Eastern since 1961.

J. G. BLACK, B.S., M.S., Ph.D. — **Professor of Physics**

B.S., M.S., University of Kentucky; Ph.D., University of Michigan. At Eastern since 1947.

JANET L. BREEZE, B.S., M.A. — **Instructor of Elementary Education**
Supervising Teacher, Laboratory School

B.S., M.A., Eastern Kentucky State College. At Eastern since 1958.

LYNELL BRISTER, A.A., B.S., M.S. — **Instructor of Elementary Education;**
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A.A., Southwest Mississippi Junior College; B.S., M.S., Mississippi Southern College. At Eastern since 1961.

ALLEN C. BROCK, B.S. in Ed., M.Ed. — **Assistant Professor of English**

Student, Truett-McConnell College; B.S. in Ed., M.Ed., University of Georgia; additional graduate work, University of Georgia. At Eastern since 1960.

JAMES W. BROWN, B.S., M.A. — **Consultant, In-Service Education**

B.S., Western Kentucky State College; M.A., Eastern Kentucky State College. At Eastern since 1957.

PEARL L. BUCHANAN, B.L., B.A., M.A. — **Associate Professor of English**

B.L., San Antonio Female College; B.A., Southwestern University; graduate student, University of Oklahoma, Northwestern University; M.A., George Peabody College for Teachers; graduate student, University of Edinburgh. At Eastern since 1923.

VEVA A BUCHHOLZ, B.S. in Ed., M.S. — **Assistant Professor of**
Home Economics

B.S. in Ed., Eastern Illinois State College; M.S., University of Illinois. At Eastern since 1959.

MARY K. BURRIER, B.S., M.S. — **Associate Professor of Home**
Economics

Diploma, Hamilton College; B.S., M.S., University of Kentucky; graduate work, Columbia University, University of Chicago; Workshop, University of Alabama, University of California. At Eastern since 1925.

JANE CAMPBELL, B.Mus., A.B., A.M. — **Assistant Professor of Music**

B.Mus., Taylor University, A.B., Ball State Teachers College; A.M., Teachers College, Columbia University; Student, Ecole Normale de Musique, Paris; International Summer School, Oxford University, England; Pupil, Mlle. Nadine Boulanger, William Durieux, Ferdinand Schaefer, and Sieff Rosanoff. At Eastern since 1926.

GALAOR CARBONELL, B.S. — **Instructor of Art**

B.S., Florida Southern College; graduate student, University of Kentucky. At Eastern since 1961.

ALENE K. CARROLL, B.S. in Ed. — **Instructor of Elementary Education, Supervising Teacher, Laboratory School**

B.S. in Ed., University of Tennessee; graduate student, Eastern Kentucky State College. At Eastern since 1960.

D. J. CARTY, B.S., M.A. — **Director of In-Service Education**

B.S., Eastern Kentucky State College; graduate student, University of Kentucky; M.A., University of Cincinnati. At Eastern since 1948.

EMMA YOUNG CASE, A.B., M.A. — **Associate Professor of Education, Dean of Women**

Student, University of Kentucky; A.B., Eastern Kentucky State College; M.A., George Peabody College for Teachers. At Eastern since 1925.

HAZEL L. CHRISMAN, B.A., M.A. — **Assistant Professor of English**

B.A., Berea College; M.A., University of Kentucky; additional graduate work, University of Kentucky. At Eastern since 1959.

RICHARD G. CHRISMAN, B.A., M.A. — **Associate Professor of Economics**

B.A., Berea College; graduate student, New York University, University of Chicago, University of Kentucky Law School; M.A., University of Kentucky; additional graduate work, University of Pittsburgh, University of Denver. At Eastern since 1952.

J. DORLAND COATES, B.S., M.A., Ph.D. — **Professor of Secondary Education; Associate Dean of Instruction for Teacher Education**

B.S., Eastern Kentucky State College; M.A., George Peabody College for Teachers; Ph.D., Colorado State College of Education; post-doctoral work, University of Chicago. At Eastern since 1932.

JOHN W. COOKE, A.B., M.A. — **Assistant Professor of History**

A.B., Western Kentucky State College; graduate student, Middlebury College; M.A., Vanderbilt University. At Eastern since 1961.

DAVID R. COUNTS, B.A. — **Instructor of History and Sociology**

Student, Mississippi College, University of Mississippi, San Antonio College, University of Kansas City; B.A., University of Texas; graduate student, University of Texas. At Eastern since 1961.

MEREDITH J. COX, B.S., M.A. — **Professor of Chemistry**

Diploma, Warren Academy; B.S., M.A., George Peabody College for Teachers; additional graduate work, Columbia University, University of Wisconsin, Duke University, George Peabody College for Teachers, Ohio State University. At Eastern since 1924.

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Assistant Football Coach

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FRED DARLING, B.S., M.A., M.A. in Ed., Dir.R., Dir.P.E., Re.D. — **Associate Professor of Health and Physical Education**

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JOAN DAWSON, B.S., M.A. — **Instructor of Commerce**

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RANDOLPH DOZIER, A.B., M.A. — **Instructor of Art**

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Student, Cumberland College, University of Chicago; A.B., M.A., Ph.D., University of Kentucky. At Eastern since 1928.

FRED A. ENGLE, JR., B.S., M.B.A. — **Assistant Professor of Commerce**

B.S., Eastern Kentucky State College; M.B.A., University of Kentucky; additional graduate work, Eastern Kentucky State College, Indiana University, University of Kentucky. At Eastern since 1959.

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A.B., A.M., Duke University; A.M., Teachers College, Columbia University; one quarter, Trinity College, Dublin, Ireland; Ph.D., George Peabody College for Teachers; post-doctoral work, University of Chicago. At Eastern since 1927.

BEN V. FLORA, JR., B.S., M.A. — **Instructor of Mathematics**

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EDITH G. FORD, B.C.S., A.B., M.A. — **Associate Professor of Commerce**

Diploma, Louisiana State Normal College; B.C.S., Bowling Green Business University; A.B., George Washington University; M.A., University of Kentucky; student, University of Paris; additional graduate work, University of Kentucky, Duke University, Columbia University, Stanford University. At Eastern since 1927.

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B.Mus., Southern Methodist University; B.A., North Texas State Teachers College; graduate work, American Conservatory of Music; M.A., Ph.D., George Peabody College for Teachers. At Eastern since 1939.

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Student, Edinburg Junior College; B.A., Baylor University; M.A., University of Texas; additional graduate work, State University of Iowa, San Diego State College, University of Arizona, University of California. At Eastern since 1961.

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A.B., Ohio Wesleyan University; A.M., Columbia University. At Eastern since 1928.

SAUL HOUNCHELL, A.B., M.A., Ph.D. — **Professor of English**

A.B., Denison University; M.A., Ph.D., George Peabody College for Teachers. At Eastern since 1946.

AUGHTUM S. HOWARD, A.B., M.S., Ph.D. — **Associate Professor of Mathematics**

A.B., Georgetown College; graduate work, University of Michigan; M.S., Ph.D., University of Kentucky. At Eastern since 1958.

CHARLES T. HUGHES, A.B., M.A. — **Associate Professor of Health and Physical Education, Director of Athletics**

Diploma, Morton-Elliott Junior College; A.B., University of Kentucky; M.A., University of Michigan. At Eastern since 1929.

THOMAS A. HUTTO, B.S.Ed., M.Ed. — **Assistant Professor of Biology**

B.S.Ed., M.Ed., University of Georgia; additional graduate work, University of Georgia. At Eastern since 1961.

MARY K. INGELS, A.B., M.A. — **Instructor of Modern Foreign Languages, Supervising Teacher, Laboratory School**

A.B., M.A., Eastern Kentucky State College; study tour, Ohio University; student, Language Institute, North Carolina State Teachers College. At Eastern since 1961.

ARTHUR L. JACKSON, A.B., M.A. — **Instructor of Biology**

A.B., Trevecca College; M.A., Southern Illinois University; additional graduate work, University of Cincinnati. At Eastern since 1961.

PAUL F. JANZ, A.B., A.M. — **Assistant Professor of English**

Student, St. Louis University, Washington University; A.B., A.M., University of Missouri; additional graduate work, University of Missouri. At Eastern since 1961.

MABEL W. JENNINGS, B.S., M.A. — **Assistant Professor of Elementary Education, Supervising Teacher, Laboratory School**

B.S., M.A., Eastern Kentucky State College; additional graduate work, University of Chicago. At Eastern since 1947.

SANFORD L. JONES, B.S., M.S., Ph.D. — **Assistant Professor of Biology**

B.S., Eastern Kentucky State College; M.S., University of Kentucky; Ph.D., Medical School, University of Tennessee. At Eastern since 1961.

QUENTIN B. KEEN, B.A., M.A., M. A., Ph.D. — **Associate Professor of Social Science**

B.A., Berea College; M.A., Duke University; M.A., Eastern Kentucky State College; Ph.D., University of California at Los Angeles. At Eastern since 1955.

WILLIAM L KEENE, B.S., M.A. — **Professor of English**

B.S., M.A., George Peabody College for Teachers; additional graduate work, George Peabody College for Teachers. At Eastern since 1926.

L. G. KENNAMER, A.B., B.S., M.A., Ph.D. — **Professor of Geography and Geology**

A.B., Simmons University; student, University of Wisconsin, Vanderbilt University, University of Tennessee; B.S., M.A., Ph.D., George Peabody College for Teachers. At Eastern since 1928.

NICHOLAS J. KOENIGSTEIN, B.S., M.Mus. — **Assistant Professor of Music Director of Bands**

B.S., Western Kentucky State College; M.Mus., West Virginia University. At Eastern since 1956.

H. H. LaFUZE, A.B., M.S., Ph.D. — **Professor of Biology**

A.B., DePauw University; M.S., Ph.D., State University of Iowa; additional graduate work, Northwestern University. At Eastern since 1939.

ROBERT S. LARANCE, B.S., M.S. — **Assistant Professor of Bacteriology**

B.S., Louisiana Polytechnic Institute; M.S., Louisiana State University; additional graduate work, Louisiana State University. At Eastern since 1956.

JACK A. LAWSON, A.B., M.A. — **Assistant Professor of Education; Counselor, Laboratory School**

A.B., Morehead State College; M.A., University of Kentucky. At Eastern since 1961.

JOHN W. LEESON, A.B., M.A. — **Instructor of English**

Student, Guilford College; A.B., Berea College; M.A., University of Kentucky. At Eastern since 1961.

CLYDE J. LEWIS, A.B., M.A, Ph.D. — **Professor of History**

A.B., Eastern Kentucky State College; M.A., University of Cincinnati; Ph.D., University of Kentucky. At Eastern since 1946.

ALVIN McGLASSON, B.S., M.S. — **Assistant Professor of Mathematics**

B.S., Eastern Kentucky State College; M.S., University of Kentucky, additional graduate work, University of Kansas. At Eastern since 1949.

WILLARD THOMAS McHONE, A.B., M.Ed. — **Assistant Professor of Art**

A.B., Eastern Kentucky State College; M.Ed., University of Louisville. At Eastern since 1955.

ALEX GENTRY McILVAINE, B.S., M.A. — **Associate Professor of Commerce**

B.S., M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky. At Eastern since 1949.

FRANCES M. McPHERSON, B.Mus., M.Mus. — **Assistant Professor of Music**

B.Mus., Lindenwood College; M.Mus., Michigan State College; student, Rudolph Ganz; Acadamie Marshall, Barcelona, Spain; Xavier Montsalvatge, composition; Alicia de Larrocha, piano. At Eastern since 1944.

STANLEY BRUCE McWHORTER, A.A., A.B., M.A. — **Instructor of English**

A.A., Lindsey Wilson College; A.B., Transylvania College; M.A., University of Kentucky. At Eastern since 1961.

ARTHUR J. MANGUS, JR., A.B., M.A. — **Instructor of English**

Student, Marshall College, Richmond Professional Institute, Texas College of Arts and Industries; A.B., Concord College; M.A., Marshall College. At Eastern since 1959.

PHILIP H. MANKIN, B.S., M.A. — **Associate Professor of English**

B.S., M.A., George Peabody College for Teachers; additional graduate work, Vanderbilt University. At Eastern since 1957.

HENRY G. MARTIN, B.A., M.A., Ed.D. — **Professor of Education; Dean of Students**

B.A., Berea College; M.A., University of Kentucky; Ed.D., University of Tennessee. At Eastern since 1955.

MELVIN E. MATTOX, B.S., M.A. — **Professor of Education; Registrar**

Diploma, Mississippi State Normal School; B.S., M.A., George Peabody College for Teachers; additional graduate work, George Peabody College for Teachers, University of Kentucky. At Eastern since 1924.

GERALD W. MILLER, B.S., M.A. — **Assistant Professor of Art**

B.S., Ball State Teachers College; M.A., University of Denver; additional graduate work, Indiana University, Michigan State University, University of Denver. At Eastern since 1961.

MARGARET H. MOBERLY, B.S., M.B.A. — **Associate Professor of Commerce**

B.S., Eastern Kentucky State College; M.B.A., University of Chicago; additional graduate work, University of Kentucky. At Eastern since 1946.

WILLIAM J. MOORE, A.B., M.A., Ph.D. — **Dean of the Faculty; Director of Research; Professor of Economics**

Diploma, Eastern Kentucky State Normal School; Student, College of Law, University of Kentucky; A.B., M.A., Ph.D., University of Kentucky; post-doctoral work, University of Kentucky, University of Chicago. At Eastern since 1928.

WILLIE MOSS, B.S., M.A. — **Assistant Professor of Home Economics**

B.S., Western Kentucky State College; M.A., University of Kentucky; additional graduate work, University of Kentucky; Workshop, Merrill Palmer School. At Eastern since 1952.

EDSEL R. MOUNTZ, B.S., M.A. — **Instructor of Commerce; Supervising Teacher, Model High School**

B.S., Eastern Kentucky State College; M.A., University of Kentucky. At Eastern since 1956.

JANET MURBACH, A.B., M.A., Docteur de l'universite de Toulouse, France; Professor of Romance Languages

A.B., Oberlin College; student, University of Paris, University of California; M.A., University of Kentucky; Docteur de l'universite de Toulouse, France. At Eastern since 1928.

THOMAS E. MYERS, B.S., M.S. — **Assistant Professor of Industrial Arts**

B.S., M.S., North Texas State College. At Eastern since 1952.

FREDERIC D. OGDEN, A.B., Ph.D. — **Professor of Political Science**

A.B., Tusculum College; Ph.D., Johns Hopkins University. At Eastern since 1961.

ROBERT L. OPPELT, B.S., M.S., A.Mus.D. — **Assistant Professor of Music**

B.S., M.S., University of Illinois; A.Mus.D., Eastman School of Music, University of Rochester; two summers, Berkshire Music Center. At Eastern since 1956.

CLYDE L. ORR, B.S., M.S., Ed.D. — **Professor of Education; Associate Dean of Instruction for Graduate Studies**

B.S., Lincoln Memorial University; M.S., University of Tennessee; Ed.D., University of Kentucky. At Eastern since 1961.

BENNIE A. PADILLA, B.A., M.A., M.A.T.S. — **Assistant Professor of Foreign Languages**

Student, San Angelo Junior College; B.A., M.A., New Mexico Highlands University; additional graduate work, New Mexico Highlands University; M.A.T.S., University of New Mexico. At Eastern since 1961.

SMITH PARK, B.S., M.S., Ph.D. — **Professor of Mathematics**

B.S., M.S., Ph.D., University of Kentucky. At Eastern since 1923.

WILLIS M. PARKHURST, B.S., M.S. — **Assistant Professor of Education**

B.S., M.S., Indiana State Teachers College; additional graduate work, Purdue University, George Peabody College for Teachers. At Eastern since 1955.

DALE R. PATRICK, B.S., M.S. — **Assistant Professor of Industrial Arts**

B.S., M.S., Indiana State Teachers College. At Eastern since 1956.

KERMIT PATTERSON, B.S., M.B.A. — **Assistant Professor of Commerce**

B.S., M.B.A., University of Kentucky; additional graduate work, Case Institute of Technology. At Eastern since 1955.

GLENN E. PRESNELL, B.S. — **Head Football Coach**

B.S., University of Nebraska; graduate student, University of Nebraska. At Eastern since 1947.

VERA V. RALEIGH, A.B., M.A. — **Assistant Professor of Geography**

A.B., Eastern Kentucky State College; M.A., George Peabody College for Teachers; additional graduate work, George Peabody College for Teachers. At Eastern since 1959.

ALMA REGENSTEIN, B.S., M.A. — **Assistant Professor of Home Economics; Supervising Teacher, Laboratory School**

B.S., Eastern Kentucky State College; M.A., University of Kentucky; Workshop, Ohio State University. At Eastern since 1937.

BYNO R. RHODES, B.A., M.A., Ph.D. — **Associate Professor of English**

B.A., M.A., Ph.D., Vanderbilt University. At Eastern since 1958.

MARY F. McKINNEY RICHARDS, B.S., M.A. — **Associate Professor of Geography**

Diploma, Eastern Kentucky State Normal School; B.S., M.A., George Peabody College for Teachers. At Eastern since 1923.

R. R. RICHARDS, A.B., M.B.A. — **Associate Professor of Commerce**

A.B., Eastern Kentucky State College; graduate student, University of Kentucky; M.B.A., Boston University; additional graduate work, Boston University, University of Southern California. At Eastern since 1929.

HAROLD RIGBY, B.S., M.A. — **Instructor of Music; Director of High School Band and Orchestra**

B.S., M.A., Eastern Kentucky State College. At Eastern since 1933.

GEORGE W. ROBINSON, B.S., M.S., Ph.D. — **Assistant Professor of History**

B.S., M.S., Ph.D., University of Wisconsin. At Eastern since 1956.

NORMA T. ROBINSON, A.B. — **Instructor of Social Studies and English; Supervising Teacher, Laboratory School**

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HAROLD E. ROBISON, B.M.Ed., M.Mus. — **Instructor of Music**

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JOHN D. ROWLETT, B.S., M.S., Ed.D. — **Professor of Industrial Arts**

B.S., M.S., North Texas State College; additional graduate work, Southern Methodist University, North Texas State College; Ed.D., University of Illinois. At Eastern since 1951.

RUBY RUSH, A.B., A.M. — **Assistant Professor of Latin; Supervising Teacher, Laboratory School**

Graduate, Virginia Intermont College; A.B., University of Kentucky; A.M., Columbia University. At Eastern since 1926.

DARNELL SALYER, B.S., Ph.D. — **Associate Professor of Chemistry**

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CAROLYN H. SCHOTTLAND, B.A., M.A. — **Instructor of Biology**

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MAMIE W. SCOTT, A.B., M.A. — **Assistant Professor of Elementary Education; Supervising Teacher, Laboratory School**

A.B., Martha Washington College; M.A., University of Kentucky; additional graduate work, University of Kentucky, University of Tennessee. At Eastern since 1950.

BLANCHE S. SEEVERS, B.Mus., B.A., M.Mus. — **Assistant Professor of Music**

B.Mus., B.A., University of Kansas; M.Mus., Northwestern University; additional graduate work, Columbia University; private study, Christiansen Choral School, New York City College. At Eastern since 1938.

WILLIAM E. SEXTON, B.S., M.A. — **Instructor of Industrial Arts**

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DANIEL N. SHINDELBOWER, A.B., M.A. — **Assistant Professor of Art**

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EVELYN SLATER, B.S., M.S. — **Assistant Professor of Home Economics**

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WILLIAM H. SNEDEGAR, JR., A.B., M.S., Ph.D. **Associate Professor of Physics**

Student, Berea College, Indiana University, Oregon State College; A.B., M.S., West Virginia University; Ph.D., University of Kentucky. At Eastern since 1961.

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A.B., M.A., University of Kentucky; Ed.D., Indiana University. At Eastern since 1954.

ROBERT A. SPILLMAN, B.Mus., M.A. **Instructor of Music**

B.Mus., M.A., Eastman School of Music, University of Rochester. At Eastern since 1959.

WILLIAM A. SPRAGUE, A.B., M.A., Ed.D. **Associate Professor of Psychology**

A.B., M.A., Colorado State College of Education; Ed.D., University of Denver. At Eastern since 1955.

ALAN P. STAPLES, B.Mus., M.Mus. **Instructor of Music**

B.Mus., M.Mus., Eastman School of Music, University of Rochester; additional graduate work, Eastman School of Music, University of Rochester. At Eastern since 1961.

SYDNEY J. STEPHENS, B.S., M.S. **Assistant Professor of Mathematics**

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JAMES WILLIAM STOCKER, B.S., M.S. **Associate Professor of Agriculture**

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VIRGINIA F. STORY, B.S., M.A. **Assistant Professor of Elementary Education; Supervising Teacher, Laboratory School**

Diploma, Eastern Kentucky State Normal School; B.S., M.A., George Peabody College for Teachers. At Eastern since 1927.

WILLARD E. SWINFORD, B.S., M.A. **Assistant Professor of Industrial Arts**

B.S., M.A., Eastern Kentucky State College. At Eastern since 1955.

JACKSON A. TAYLOR, B.S., M.S. **Assistant Professor of Agriculture**

B.S., M.S., University of Kentucky. At Eastern since 1954.

RONALD S. TAYLOR, B.A., M.S. **Instructor of Geology and Geography**

B.A., Denison University; M.S., University of Kentucky; additional graduate work, University of Colorado. At Eastern since 1960.

BROWN E. TELFORD, B.S. **Associate Professor of Music**

Diploma, Greenbrier College for Women; student, Cincinnati Conservatory of Music, New York School of Music and Arts, New England Conservatory of Music; B.S., Columbia University. At Eastern since 1917.

JUANITA TODD, A.B., M.A. **Instructor of Art**

A.B., Georgetown College; M.A., University of Kentucky. At Eastern since 1960.

JANE E. TRINKLE, B.Mus., M.A. **Instructor of Music; Supervising Teacher, Laboratory School**

B.Mus., University of Louisville; M.A., Teachers College, Columbia University; additional graduate work, Teachers College, Columbia University, Juilliard School of Music; workshops, Christiansen Choral School, Concordia College; Fred Waring Music Workshop, Appalachian State Teachers College. At Eastern since 1961.

JAMES E. VAN PEURSEM, A.B., B.Sch.M., M.A. — **Professor of Music**

A.B., Morningside College; B.Sch.M., Oberlin College; M.A., New York University. At Eastern since 1929.

RALPH W. WHALIN, B.S., M.Ed. — **Professor of Industrial Arts**

B.S., Western Kentucky State College; M.Ed., University of Missouri; additional graduate work, University of Kentucky. At Eastern since 1937.

JESS R. WHITE, B.S., M.A., Dir.P.E. — **Associate Professor of Health and Physical Education**

Student, Cumberland Junior College; B.S., M.A., Eastern Kentucky State College; Dir.P.E., Indiana University. At Eastern since 1961.

THELMA W. WHITLOCK, B.S., M.A. — **Instructor of Science; Supervising Teacher, Laboratory School**

B.S., Eastern Kentucky State College; graduate work, University of Kentucky, M.A., Eastern Kentucky State College. At Eastern since 1957.

A. L. WHITT, B.S., M.S. — **Associate Professor of Biology**

B.S., Western Kentucky State College; M.S., University of Kentucky; additional graduate work, Vanderbilt University. At Eastern since 1948.

ARTHUR L. WICKERSHAM, B.S., M.A. — **Assistant Professor of Mathematics; Supervising Teacher, Laboratory School**

B.S., M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky. At Eastern since 1946.

LYLE C. WOLFROM, B.Mus., M.Mus. — **Assistant Professor of Music**

B.Mus., University of Kansas; M.Mus., Indiana University. At Eastern since 1960.

CARL N. WOODS, A.B., M.A. — **Assistant Professor of Social Science**

Student, Caney Junior College; A.B., Morehead State College; M.A., George Peabody College for Teachers; additional graduate work, George Peabody College for Teachers. At Eastern since 1961.

LEONARD F. WOOLUM, A.B., M.A., Ed.D. — **Associate Professor of Education**

A.B., Union College; M.A., University of Kentucky; Ed.D., University of Maryland. At Eastern since 1957.

MARY C. YUNDT, B.A., B.S. in L.S. — **Assistant Professor of Library Science**

Student, Heidelberg College; B.A., Flora Stone Mather College; B.S. in L.S., School of Library Science, Western Reserve University; additional graduate work, Indiana University, Kentucky Wesleyan College. At Eastern since 1961.

HAROLD L. ZIMMACK, B.S., M.S., Ph.D. — **Assistant Professor of Biology**

B.S., Eastern Illinois State College; M.S., Ph.D., Iowa State College. At Eastern since 1956.

LIBRARY STAFF

DICK M. ALLEN, A.B., M.A., B.S. in L.S. — **Head Librarian**

A.B., Eastern Kentucky State College; M.A., B.S. in Library Science, George Peabody College for Teachers. At Eastern since 1957.

KATHRYN P. DAVIS — **Audio-Visual Aids**

Student, Eastern Kentucky State College. At Eastern since 1954.

MARY S. DICKERSON, A.B., B.S. in L.S. **Assistant Librarian**
A.B., Centre College; B.S. in Library Science, University of Kentucky. At Eastern since 1948.

LOUISE B. LYONS, B.S., M.A. **Assistant Librarian, Laboratory School**
B.S., M.A., East Tennessee State College. At Eastern since 1961.

NANCY G. MILLER, B.S., M.A. **Assistant Librarian**
B.S., M.A., George Peabody College for Teachers. At Eastern since 1930.

NANCY R. PARK, A.B., Cert. in L.S. **Assistant Librarian**
A.B., North Carolina Woman's College; Certificate in Library Science, George Peabody College for Teachers. At Eastern since 1954.

MARY C. YUNDT, B.A., B.S. in L.S. **Assistant Librarian**
Student, Heidelberg College; B.A., Flora Stone Mather College; B.S. in L.S., School of Library Science, Western Reserve University; additional graduate work, Indiana University, Kentucky Wesleyan College. At Eastern since 1961.

MILITARY SCIENCE STAFF

COLONEL JOE M. SANDERS, B.S. **Professor of Military Science**
B.S., Wofford College; Graduate work, Eastern Kentucky State College; graduate of: Rifle and Heavy Weapons Company Course, and Field Officer's Course, The Infantry School, Fort Benning, Georgia; the Command and General Staff College, Fort Leavenworth, Kansas; Army Service Forces Headquarters Staff School, Washington, D.C.; The Army Command Management School, Fort Belvoir, Virginia; Senior Officer Nuclear Weapons Employment Course, Fort Leavenworth, Kansas. At Eastern since September 1960.

CAPTAIN JOHN A. SIMPSON, B.S. **Assistant Professor of Military Science**
B.S., Clemson College; Graduate work, Eastern Kentucky State College; graduate of: Armor Company Officer's Course, The Armor School, Fort Knox, Kentucky; Armor Officer's Advanced Course, The Armor School, Fort Knox, Kentucky. At Eastern since June 1961.

CAPTAIN DONALD H. JORDAN, B.S. **Assistant Professor of Military Science**
B.S., Worchester Polytechnic Institute; Graduate work, Eastern Kentucky State College; graduate of: Officer Candidate School, Fort Sill, Oklahoma; Associate Field Artillery Battery Officers Course, Fort Sill, Oklahoma; Artillery Officers Career Course, Fort Sill, Oklahoma. At Eastern since August 1961.

CAPTAIN EDWARD L. QUEENEY, B.S. **Assistant Professor of Military Science**
B.S., Boston College; Graduate work, Eastern Kentucky State College; graduate of: Basic Officer Course, The Air Defense School, Fort Bliss, Texas; Nike Unit Commanders Course, The Air Defense School, Fort Bliss, Texas; Artillery Officer's Advanced Course, The Artillery School, Fort Sill, Oklahoma. At Eastern since September 1961.

CAPTAIN CARL L. ESPY, B.S. **Assistant Professor of Military Science**
B.S., Auburn University; Graduate work, Eastern Kentucky State College; graduate of: Armor Company Officer's Course, The Armor School, Fort Knox, Kentucky; Armor Officer's Advanced Course, The Armor School, Fort Knox, Kentucky. At Eastern since September 1961.

CAPTAIN DAVID C. HOLLIDAY, B.A. **Assistant Professor of Military Science**
B.A., University of Kentucky; graduate of: Associate Company Officer's Course, Provost Marshal School, Fort Gordon, Georgia; Associate Company Officer's Course, The Armor School, Fort Knox, Kentucky; The Armor Career Officer Course, The Armor School, Fort Knox, Kentucky. At Eastern since July 1962.

CAPTAIN ROBERT I. FARRIS, B.S. **Assistant Professor of Military Science**
B.S., Middle Tennessee State College; Graduate of: The Basic Infantry Officer Course, The Infantry School, Fort Benning, Georgia; Airborne and Ranger Courses, The Infantry School, Fort Benning, Georgia. At Eastern since June 1962.

M/SGT. RICHARD J. OLGUIN (E-8) **Instructor**
At Eastern since June 1962.

M/SGT. VIRL F. AUTERSON (E-7) **Supply Sergeant**
At Eastern since August 1961.

SFC. RAFEAL ARNAU (E-6) **Training Aids NCO**
At Eastern since August 1961.

SFC. CAROL R. KEENEY (E-6) **Insructor**
At Eastern since February 1961.

SGT. WILLIS P. BRICKEY (E-5) **Instructor**
At Eastern since April 1961.

VIRGINIA M. EVERSOLE **Secretary to Professor of Military Science**
At Eastern since September 1956.

BETTY J. MYERS **Clerk Stenographer**
At Eastern since November 1961.

NOTE: Other officers and non-commissioned officers to be assigned.

FACULTY EMERITI

W. F. O'DONNELL, A.B., A.M., LL.D., President, 1941-1960.

MARY E. BARNHILL, A.B., M.A., LL.B., Associate Professor of English, 1931-1960.

G. O. BRYANT, A.B., A.M., Assistant Professor of Mathematics; Supervising Teacher, Model High School, 1924-1942.

ROY B. CLARK, A.B., A.M., Ph.D., Professor of English, 1926-1954.

J. T. DORRIS, A.B., A.M., Ph.D., Lit.D., Professor of History and Government, 1926-1953.

RICHARD A. EDWARDS, A.B., A.M., Professor of Education, 1918-1954.

MAUDE GIBSON, Professor of Art, 1910-1942.

RICHARD E. JAGGERS, A.B., M.A., Ph.D., Professor of Education, 1952-1961.

CORA LEE, B.S., A.M., Assistant Professor of English; Supervising Teacher, Model High School, 1925-1961.

ELLEN PUGH, A.B., A.M., Assistant Professor of Elementary Education; Supervising Teacher, Elementary Training School, 1930-1957.

ANNA A. SCHNIEB, A.B., A.M., Ph.D., Professor of Education, 1923-1952.

GLADYS P. TYNG, B.S., A.M., Professor of Education, 1920-1961.

SAMUEL WALKER, A.B., A.M., Ph.D., Assistant Professor of Mathematics, 1926-1956.

LUCILE R. WHITEHEAD, B.S., B.S. in L.S., Assistant Librarian, 1931-1961.

ELIZABETH WILSON, B.S., M.A., Assistant Professor of Elementary Education; Supervising Teacher, Elementary Training School, 1928-1953.

GERMANIA WINGO, B.S., M.A., Assistant Professor of Elementary Education; Supervising Teacher, Elementary Training School, 1920-1958.

ADMINISTRATIVE STAFF EMERITI

KATHARINE CHENAULT, A.B., Hostess, Student Union Building, 1940-1959.

BESSIE H. GRIGGS, Information Clerk, 1929-1960.

EARL P. McCONNELL, Bookkeeper, 1923-1958.

EDITH L. McILVAINE, Supervisor of Cafeteria, 1927-1957.

EUNICE WINGO, Assistant to the Dean of Women, 1925-1959.

ADMINISTRATIVE STAFF

OFFICE OF PRESIDENT

ROBERT R. MARTIN, A.B., A.M., Ed.D. ..... President
J. C. POWELL, A.B., M.Ed. ..... Executive Assistant to the President
LOIS COLLEY ..... Secretary, Board of Regents

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Martha C. Barksdale, A.B. ..... Secretary

J. DORLAND COATES, B.S., M.A., Ph.D. ..... Associate Dean of Instruction for Teacher Education
Maxine Hackett, B.S., M.A. ..... Secretary

CLYDE L. ORR, B.S., M.S., Ed.D. ..... Associate Dean of Instruction for Graduate Studies

D. J. CARTY, B.S., M.A. ..... Director of In-Service Education
Rachel N. Duncan ..... Secretary

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HENRY G. MARTIN, A.B., M.A., Ed.D. ..... Dean of Students
Helen W. Perry ..... Administrative Assistant
Laura S. Ballard ..... Hostess, Student Union Building

MELVIN E. MATTOX, B.S., M.A. ..... Registrar
Louise Broaddus, A.B. ..... Recorder
Carrie Potts ..... Secretary

EMMA YOUNG CASE, A.B., M.A. ..... Dean of Women

HUGH MAHAFFEY, A.B., M.D. ..... Physician
Ann Vescio, R.N. ..... Nurse

BUSINESS DEPARTMENT

G. M. BROCK ..... Business Agent

G. M. BROCK ..... Director, Division of Purchases and Stores

Aileen Wickersham ..... Secretary

E. B. Noland ..... Cashier

RALPH CONLEE, B.S. ..... Director, Division of Buildings and Grounds

Lawrence O. Martin, B.S., M.A. ..... Assistant Director

FRED BALLOU ..... Bookstore Manager

CHARLES PACK ..... Director, Food Service Operations

Nellie Hill ..... Cafeteria Manager

WILLIAM F. SMITH, JR. ..... Director, Division of Accounting and Budgetary Control

COLLEGE DEVELOPMENT

J. C. POWELL, A.B., M.Ed. ..... Co-ordinator

DONALD R. FELTNER, B.S., M.A. ..... Director of Publicity and Publications

George U. Lyon ..... Photographer

CLARENCE D. HARMON, B.S., M.A. ..... Director of Alumni Affairs
Secretary of Alumni Association

Frankie D. Deniston ..... Assistant Secretary

JOHN L. VICKERS, B.S., M.A. ..... Director of College-Community Relations

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Agriculture	James William Stocker
Art	Frederic P. Giles
Biology	H. H. LaFuze
Chemistry	M. J. Cox
Commerce	W. J. Moore
Education	D. T. Ferrell
English	P. M. Grise
Foreign Languages	Janet Murbach
Geography and Geology	L. G. Kennamer
Health and Physical Education	C. T. Hughes
History, Anthropology, and Sociology	K. M. Adams
Home Economics	Mary K. Burrier
Industrial Arts	Ralph Whalin
Library Science	Dick M. Allen
Mathematics	Smith Park
Military Science	Colonel Joe M. Sanders
Music	James E. Van Peursem
Physics	J. G. Black
Political Science	Frederic D. Ogden

COMMITTEES

Alumni

C. Harmon, Adams, D. Allen, Baechtold, Baldwin, Berge, Breeze, Carty, Case, Coates, Creech, Daly, Darling, J. Davis, J. Dawson, Dozier, Egnew, Engle, Jr., Flora, Franklin, French, Hale, Hibbard, Hilton, Hogg, Ingels, Jennings, Jones, Keen, Lewis, McGlasson, McHone, A. McIlvaine, Moberly, Moore, Mountz, Raleigh, Regenstein, M. Richards, R. Richards, Rigby, N. Robinson, Salyer, Sexton, Stephens, Stocker, Story, Swinford, White, Whitlock, Wickersham.

Athletics

S. Park, Coates, Mattox, Powell, R. Richards, Stocker, Vickers, Whitt, Zimmack. Hughes, ex officio member.

Fine Arts

Giles, Buchanan, Campbell, Koenigstein, McPherson, Oppelt, Seevers, Telford, Van Peursem, and two students from each class.

Graduate Council

Orr, Ambrose, Ankeney, Engle, Sr., Ferrell, Grise, LaFuze, Mattox, Rowlett, Sprague.

Heritage

M. Richards, Baldwin, Coates, Engle, Jr., Franklin, Jennings, Lewis, McHone, Sexton.

Library

Allen, Ferrell, Giles, Herndon, Hood, Keene, LaFuze, Lewis, Ogden, S. Park, M. Richards, Stocker, Van Peursem.

Museum

Dorris, Allen, Buchanan, Campbell, Ford, Gatwood, Keene, Kennamer, Lewis, Moberly, S. Park, Sprague, Stocker.

Social

Case, Buchanan, H. Chrisman, Gatwood, McHone, H. Martin, Moss, Rowlett, Stocker, Vickers, and two students from each class.

Student Loans, Scholarships, and Fellowships

R. Martin, Ambrose, Case, Coates, H. Martin, Mattox, Moore, Orr, Powell.

Student Organizations and Activities

Grise, R. Chrisman, Darling, LaFuze, McHone, G. Robinson, Seevers, Stocker, Whalin. Case, H. Martin, ex officio members.

Student Welfare

Whalin, Ambrose, Burrier, H. Chrisman, Coates, Darling, R. Richards, Shindelbower, Whitt. Case, H. Martin, ex officio members.

Teacher Education

Coates, Adams, Ambrose, Ankeney, Barr, Darling, Ferrell, Grise, Rowlett.

The President and the Dean of the College are ex officio members of all standing committees.

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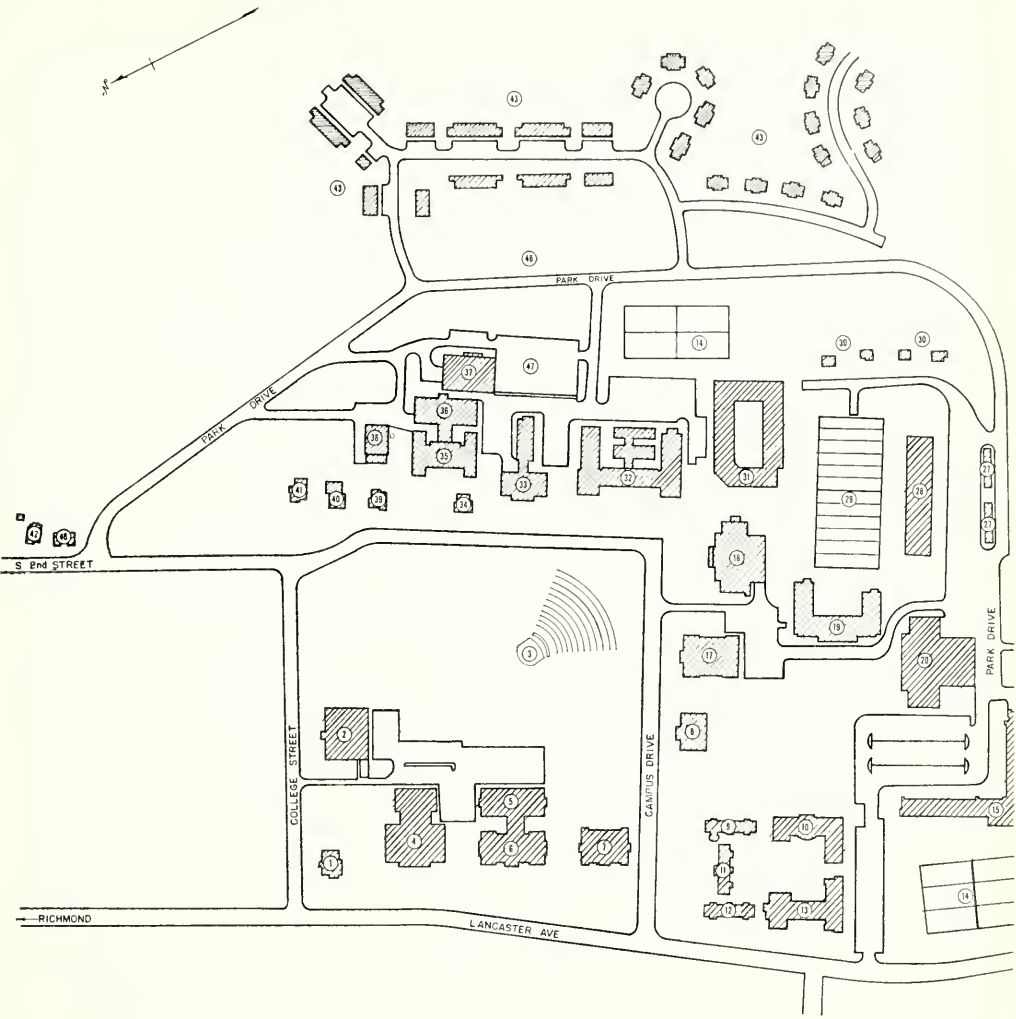

1. BLANTON HOUSE
2. FOSTER MUSIC BLDG.
3. AMPHITHEATER
4. COATES ADMINISTRATION BLDG. & HIRAM BROCK AUDITORIUM
5. MEMORIAL SCIENCE BLDG.
6. ROARK BLDG.
7. CAMMACK BLDG.
8. UNIVERSITY BLDG.
9. MILLER HALL
10. KEITH HALL
11. BECKHAM HALL
12. McCREARY HALL
- 13. COMBS HALL
14. TENNIS COURTS
- 15. MARTIN HALL
16. DONOVAN BLDG. (LABORATORY SCHOOL)
17. CRABBE LIBRARY
18. JOHNSON STUDENT UNION BLDG.
- 19. McGREGOR HAL
20. WEAVER HEAL
21. STATELAND HA
22. O'DONNELL HA
23. MATTOX HALL
24. WATER TOWER
- 25. ALUMNI COLISE
26. JOUVRE RIFLE
27 R. O. T. C. BLDG.
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31. CASE HALL
32. BURNAM HALL
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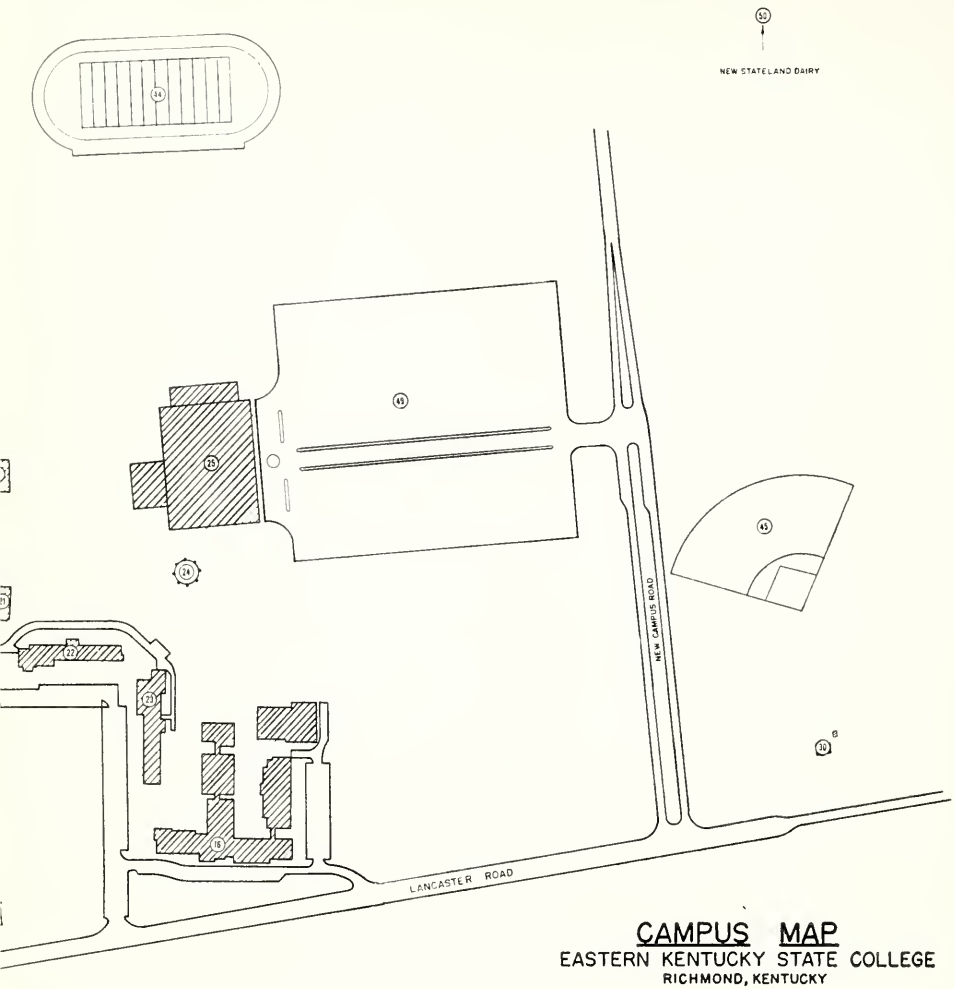
35. FITZPATRICK A
- 36. GIBSON ADDITIO



CAMPUS MAP

EASTERN KENTUCKY STATE COLLEGE
RICHMOND, KENTUCKY

L
H BLDG.
LL
L

M
RANGE

M
D
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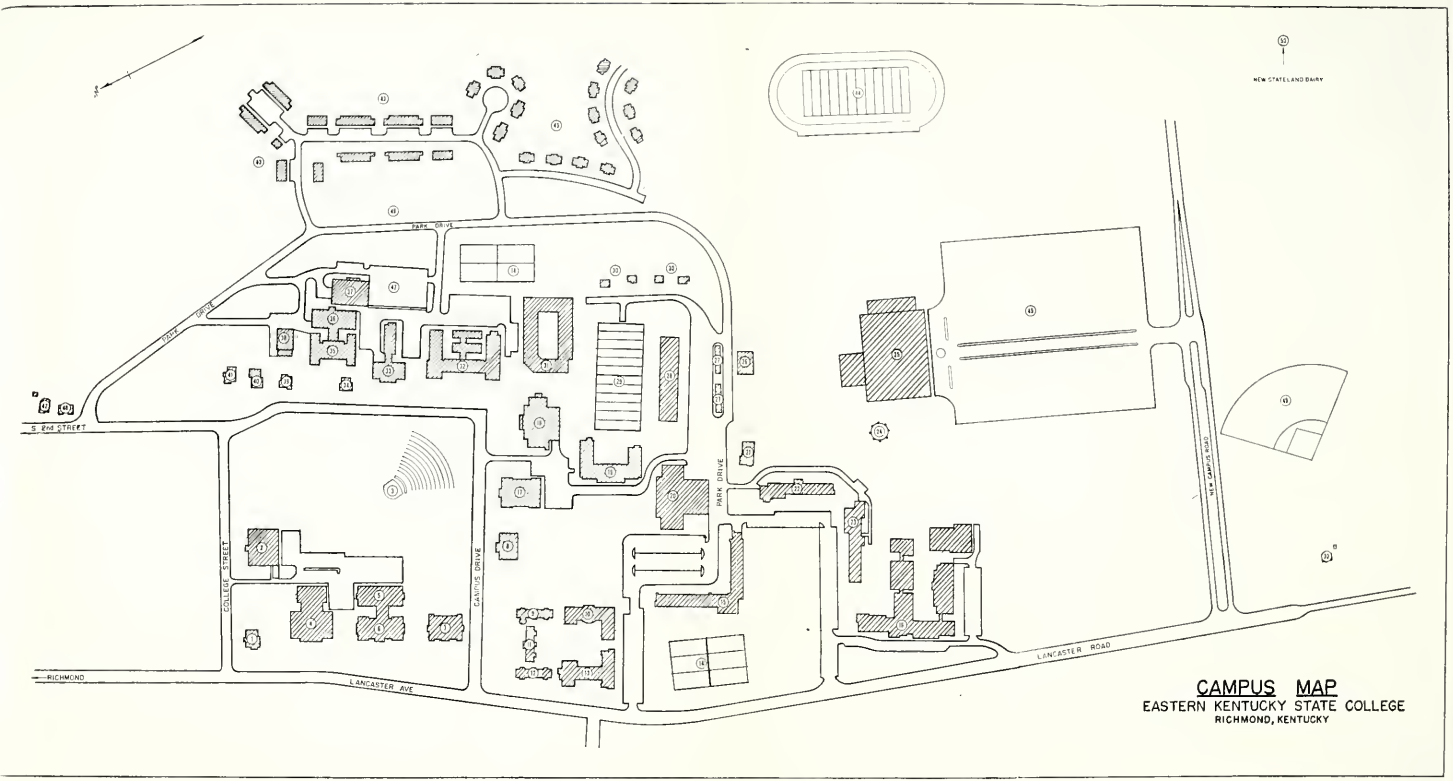
RTS BLDG.
N

- 37. AULT SERVICE BLDG.
- 38. BOILER PLANT
- 39. AULT HOUSE
- 40. TURLEY HOUSE
- 41. TELFORD HOUSE
- 42. MOTHER LYNN HOUSE
- 43. BROCKTON (MARRIED STUDENT HOUSING)
- 44. INTRAMURAL ATHLETIC FIELD & TRACK
- 45. "TURKEY" HUGHES FIELD
- 46. BAPTIST STUDENT UNION
- 47. OUTSIDE SERVICE AREA
- 48. TRAILER PARK
- 49. MULTI-PURPOSE PAVED AREA
- 50. NEW STATELAND DAIRY

•- PLANNED OR UNDER CONSTRUCTION



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20. WEAVER HEALTH BLDG.
21. STATELAND HALL
22. O'DONNELL HALL
23. MATTOX HALL
24. WATER TOWER
- 25. ALUMNI COLISEUM
26. JOUVRE RIFLE RANGE
27. R. O. T. C. BLDG
28. HANGER STADIUM
29. FOOTBALL FIELD
30. COLLEGE RESIDENCE
31. CASE HALL
32. BURNAM HALL
33. SULLIVAN HALL
34. FARRIS HOUSE
35. FITZPATRICK ARTS BLDG.
- 36. GIBSON ADDITION
- 37. AULT SERVICE BLDG.
38. BOILER PLANT
39. AULT HOUSE
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